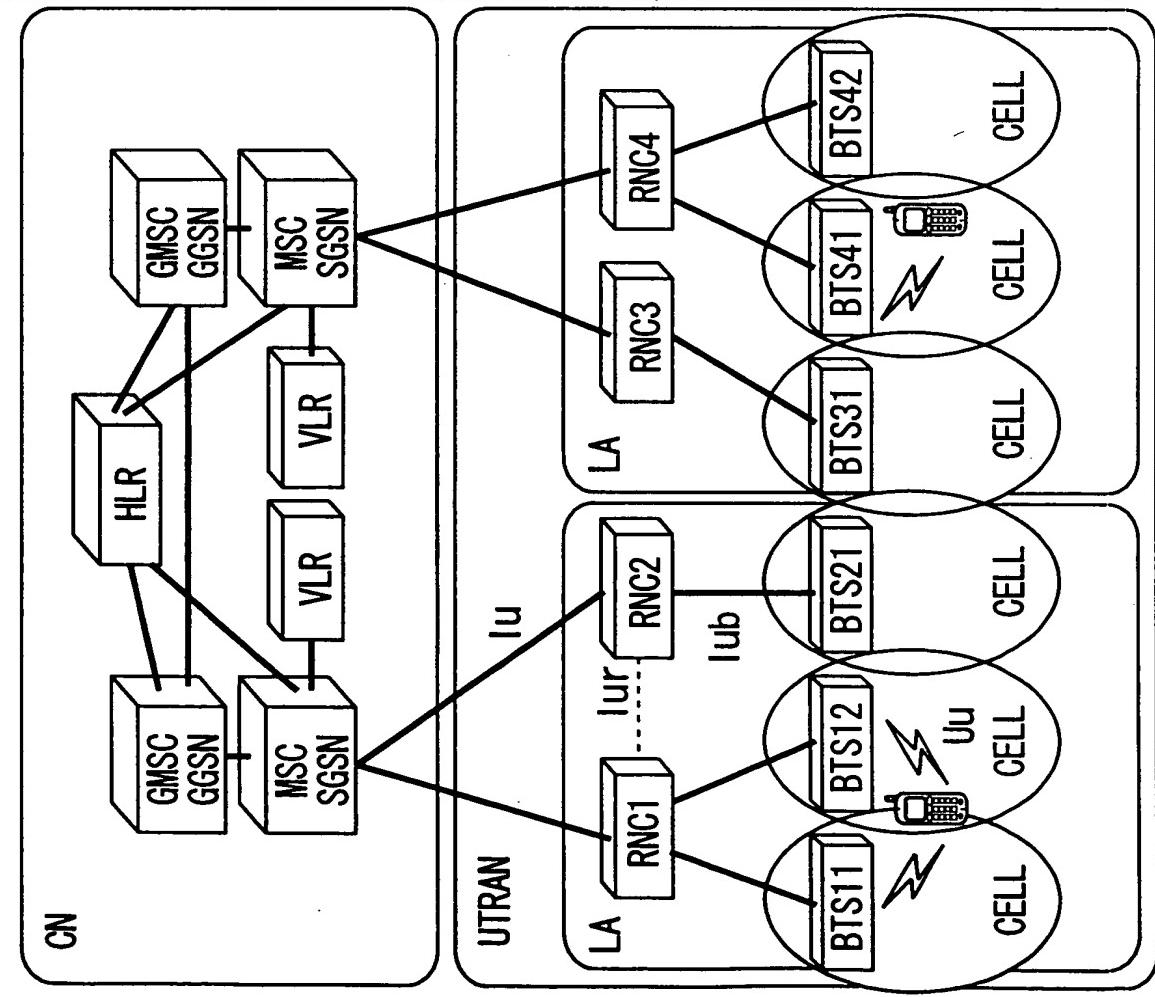
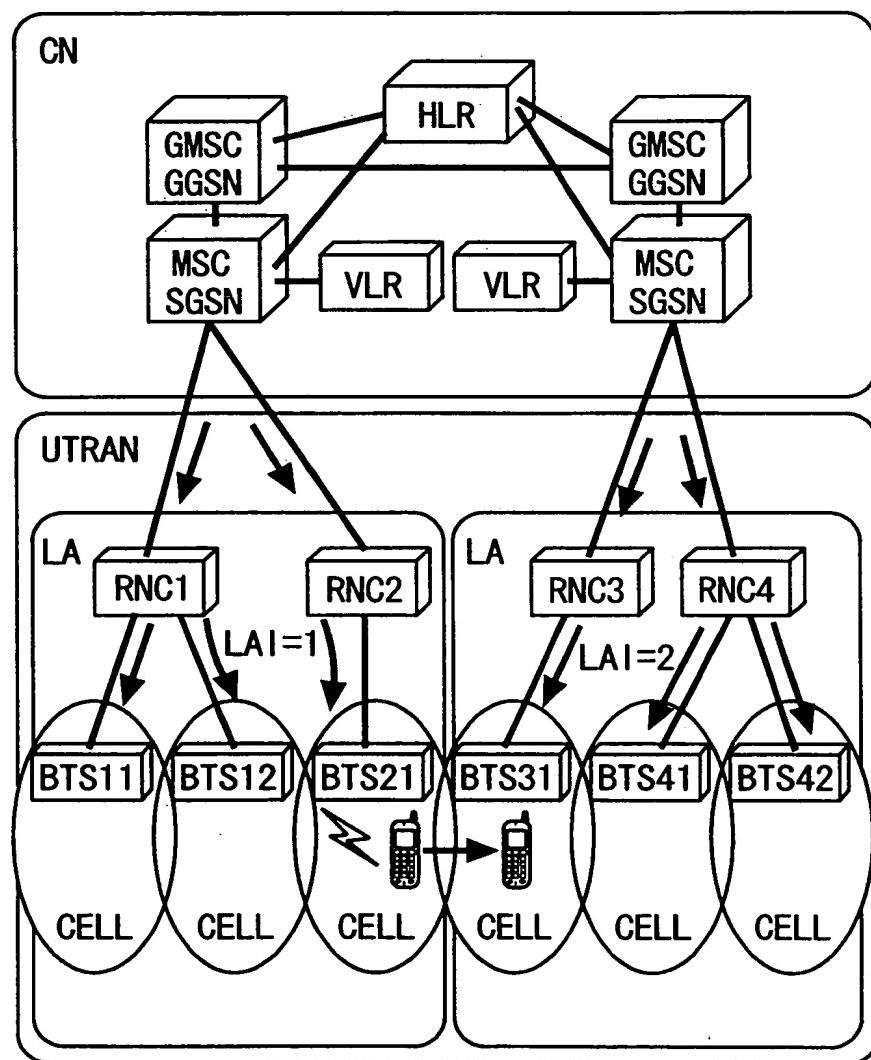


*FIG. 1*

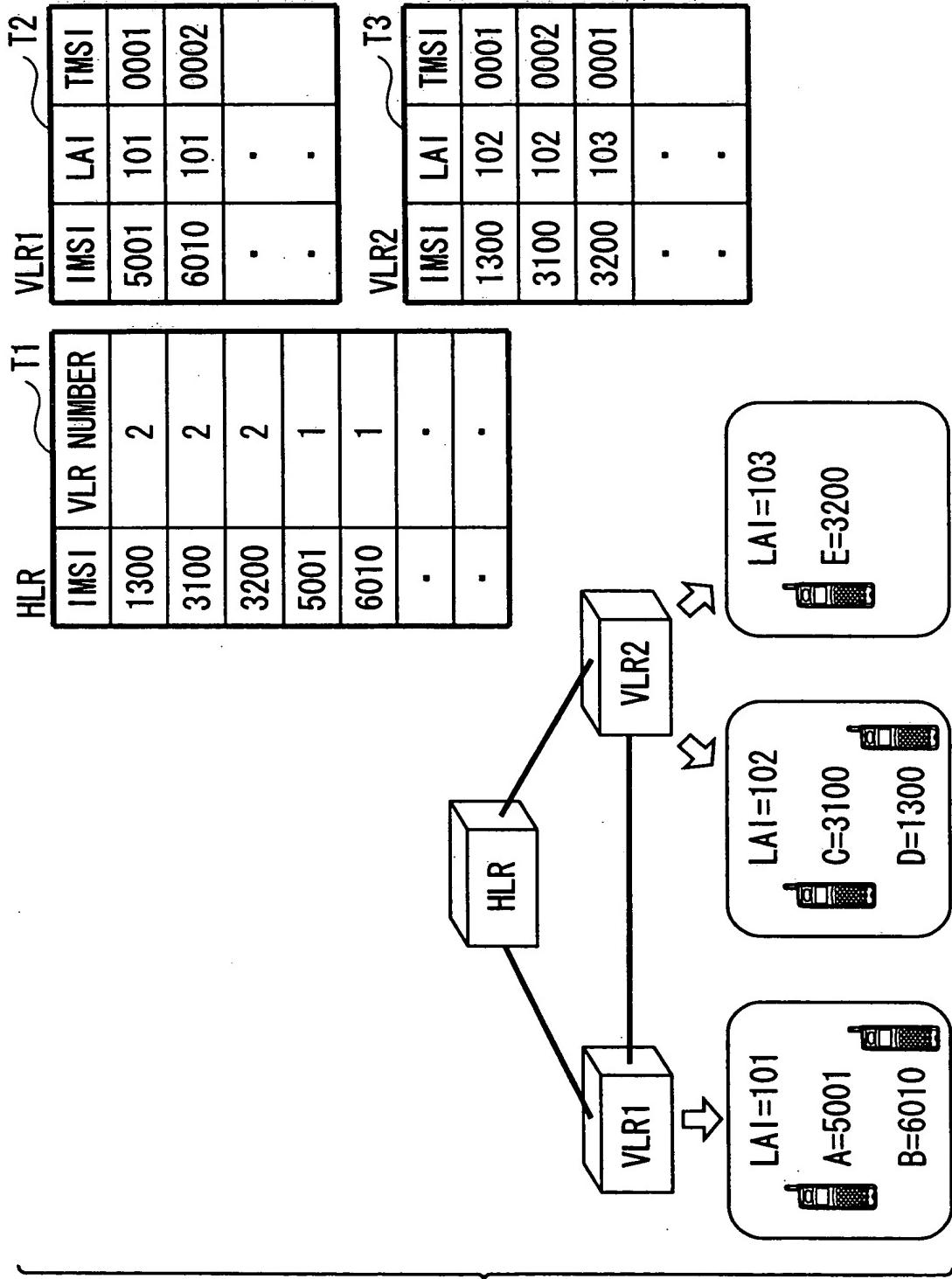


**CN:** CORE NETWORK HAVING FUNCTION OF  
 PERFORMING SWITCHING PROCESSING  
 UTRAN: SUBSCRIBER ACCESS NETWORK  
 CONTAINING WIRELESS PORTION AT THE  
 LOCATION MANAGEMENT UNIT AT THE  
 TIME WHEN TERMINAL DOES NOT PERFORM  
 COMMUNICATION (CALLED "RA" IN THE CASE  
 OF PACKET COMMUNICATION)  
**CELL:** WIRELESS SERVICE AREA FORMED BY  
 EACH BTS CELL BECOMES LOCATION  
 MANAGEMENT UNIT AT THE TIME WHEN  
 TERMINAL PERFORMS COMMUNICATION  
**GMSC/MSC:** SWITCHING APPARATUS FOR LINE  
 CALL  
**GGSN/SGSN:** SWITCHING APPARATUS FOR  
 PACKET CALL  
**HLR:** LOCATION MANAGEMENT REGISTER  
**VLR:** VISITOR LOCATION MANAGEMENT REGISTER  
**RNCn:** RAN (RADIO ACCESS NETWORK) CONTROL  
 APPARATUS  
**BTSn:** WIRELESS BASE STATION  
**Iu:** INTERFACE BETWEEN CN AND RAN  
**Iur:** INTERFACE BETWEEN RNCs  
**Iub:** INTERFACE BETWEEN RNC AND BTS  
**Uu:** INTERFACE BETWEEN BTS AND TERMINAL

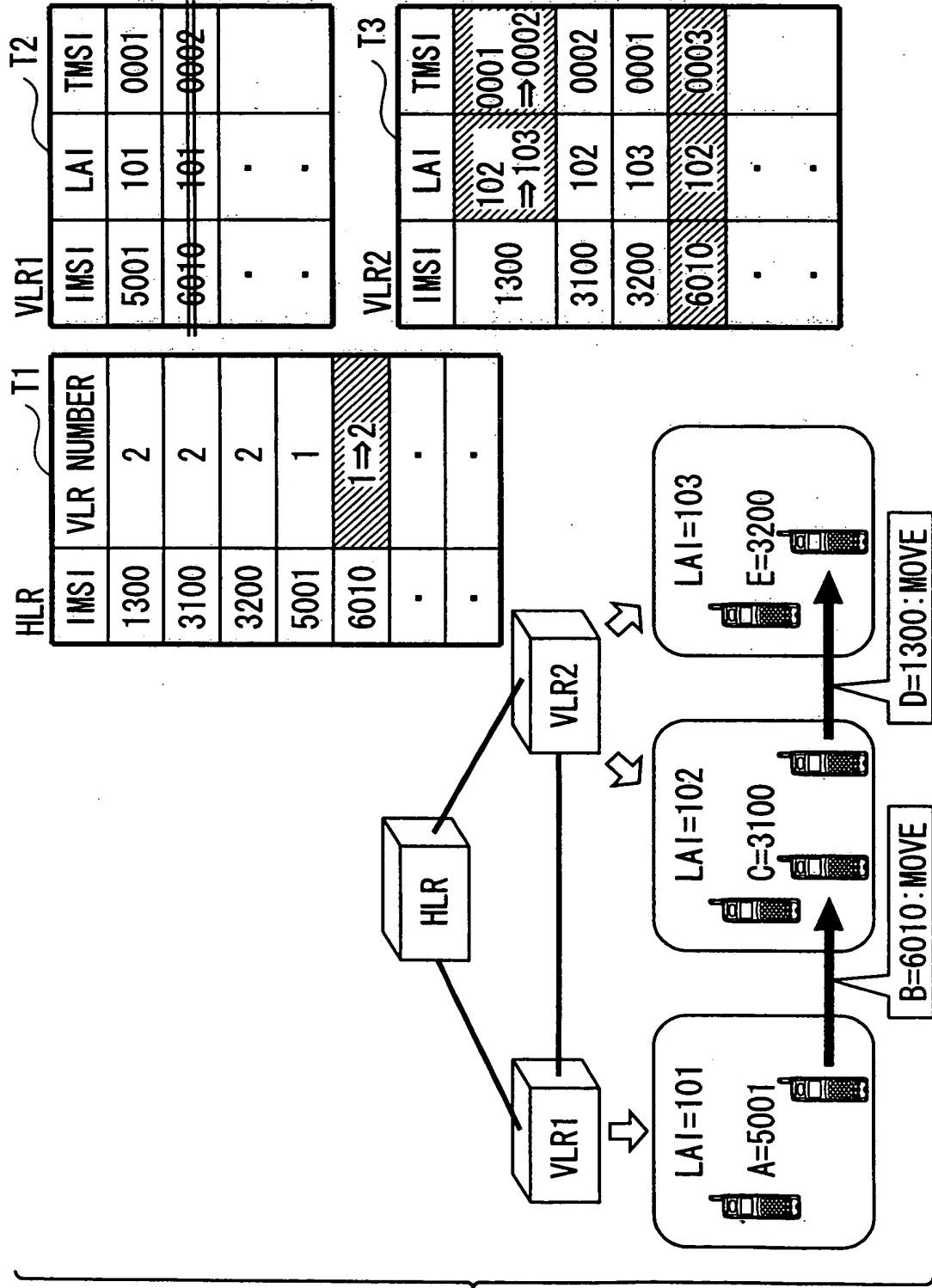
*FIG. 2*



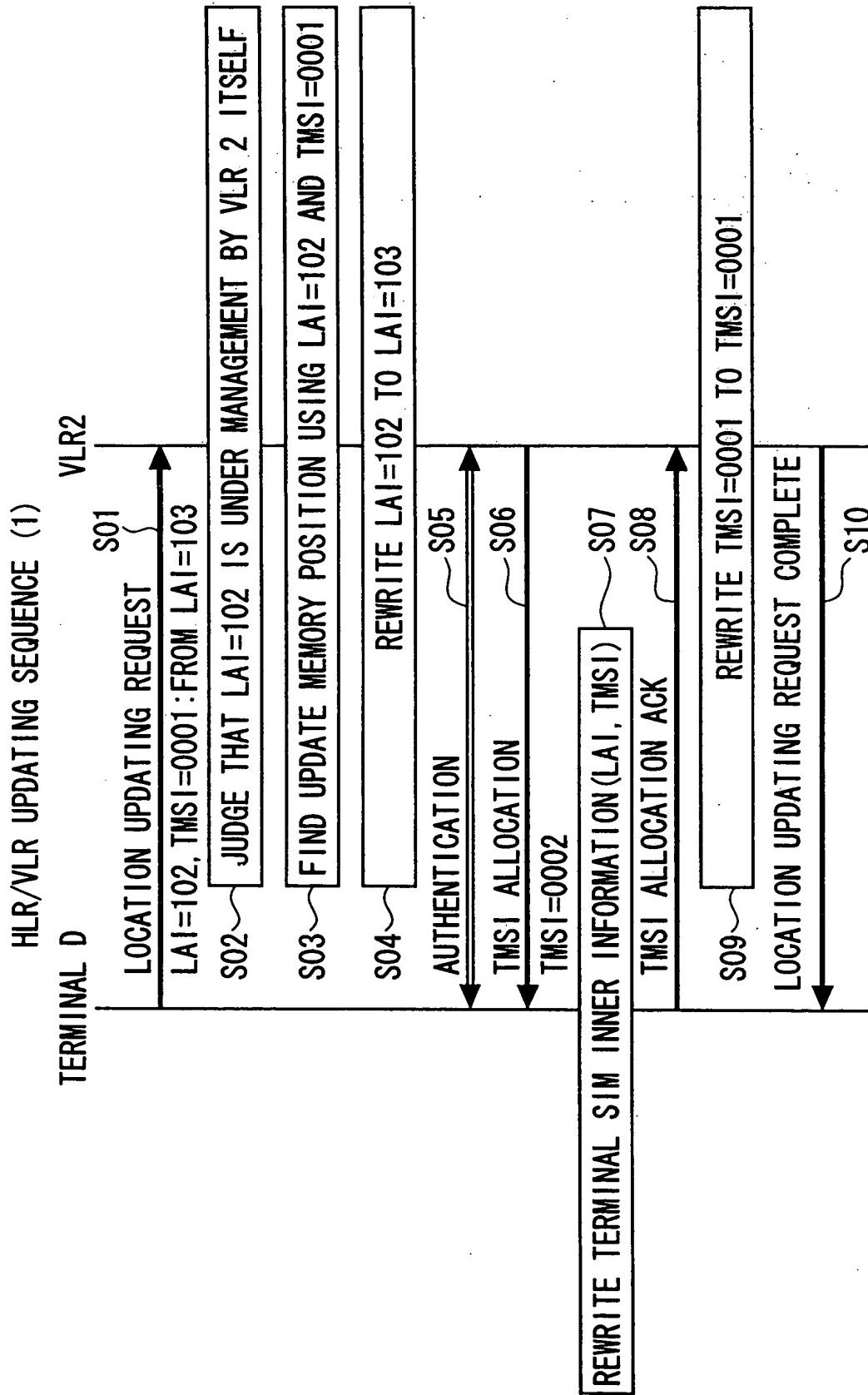
*FIG. 3*



*FIG. 4*

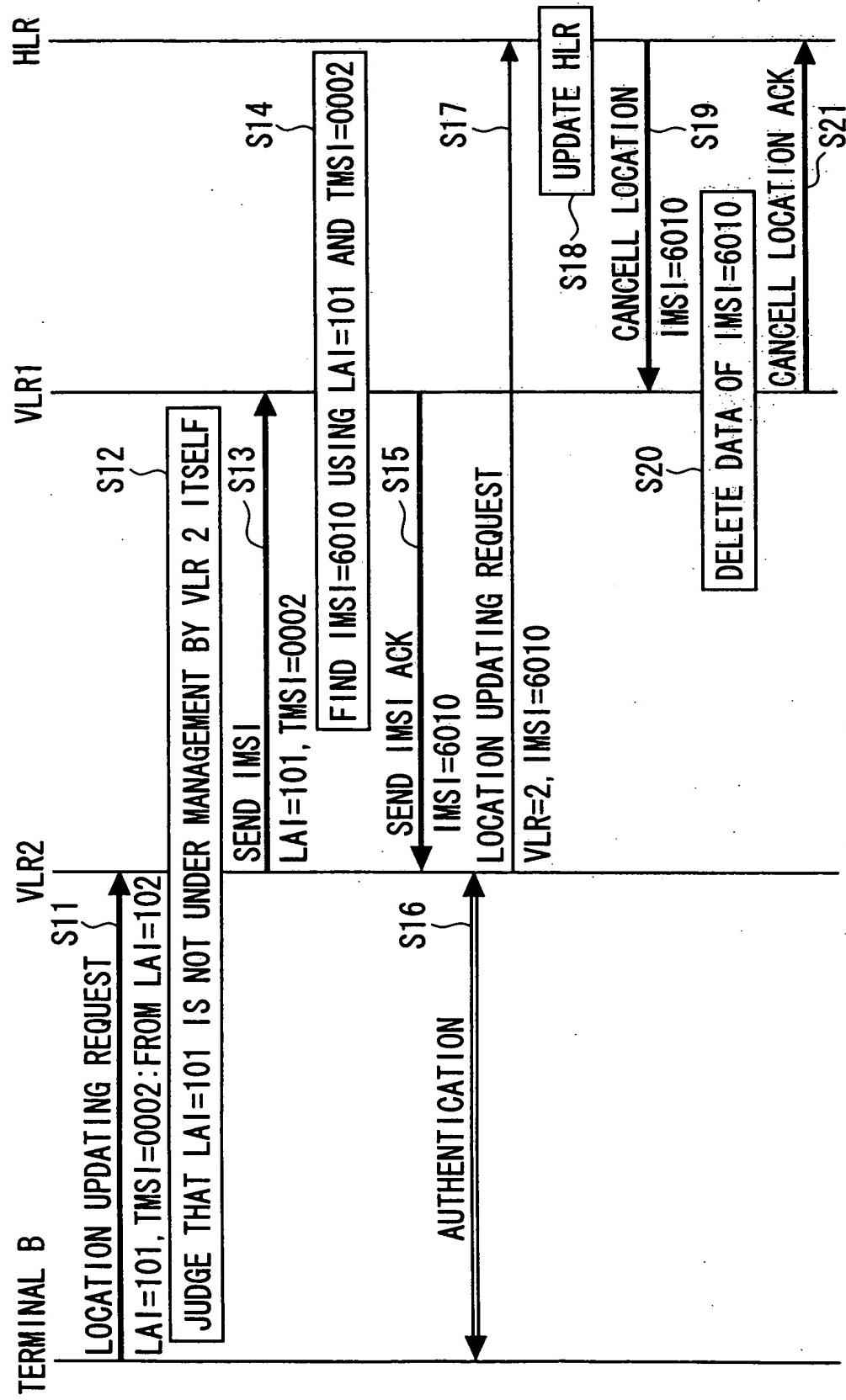


*FIG. 5*



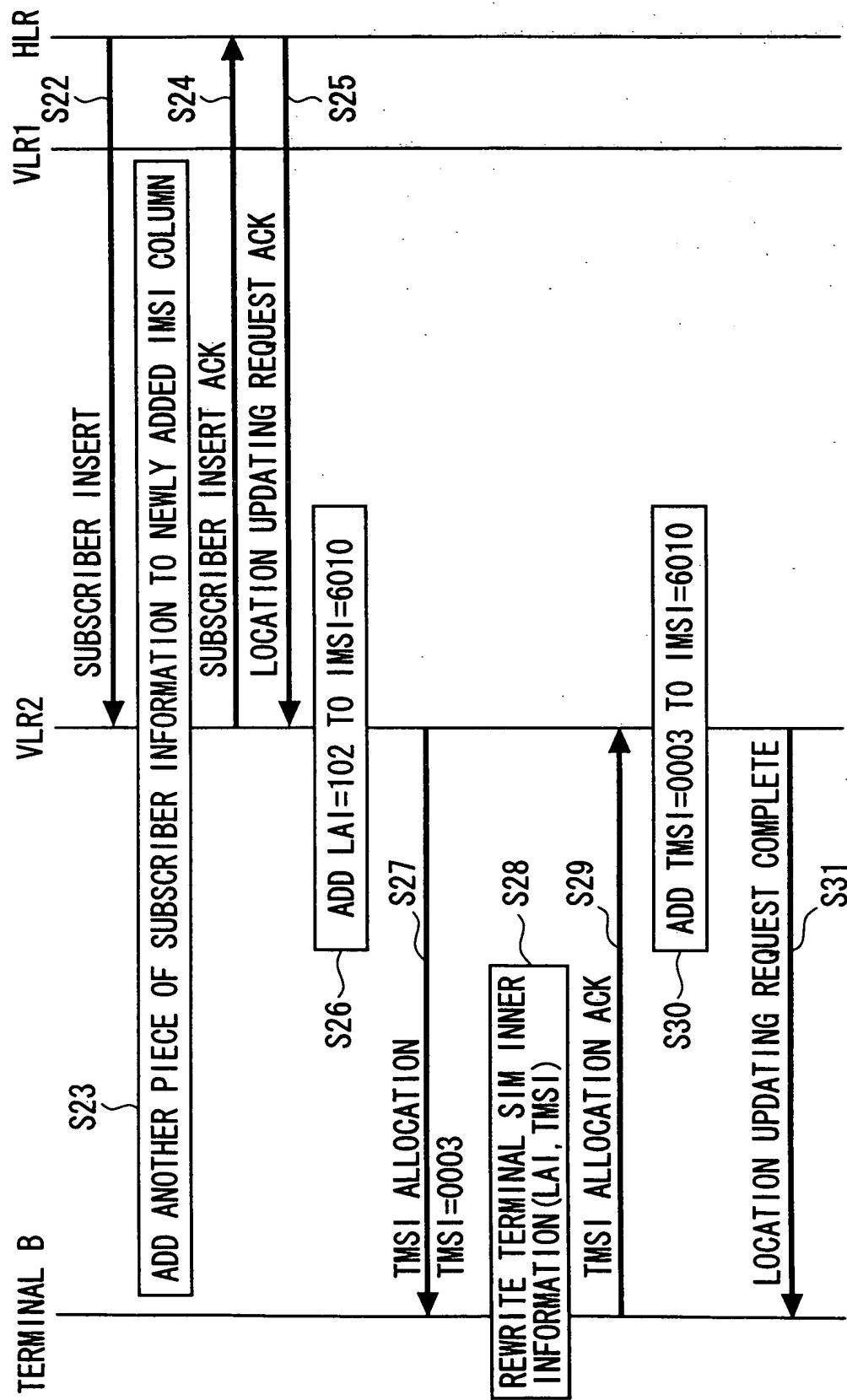
*F/G. 6*

HLR/VLR UPDATING SEQUENCE (2)

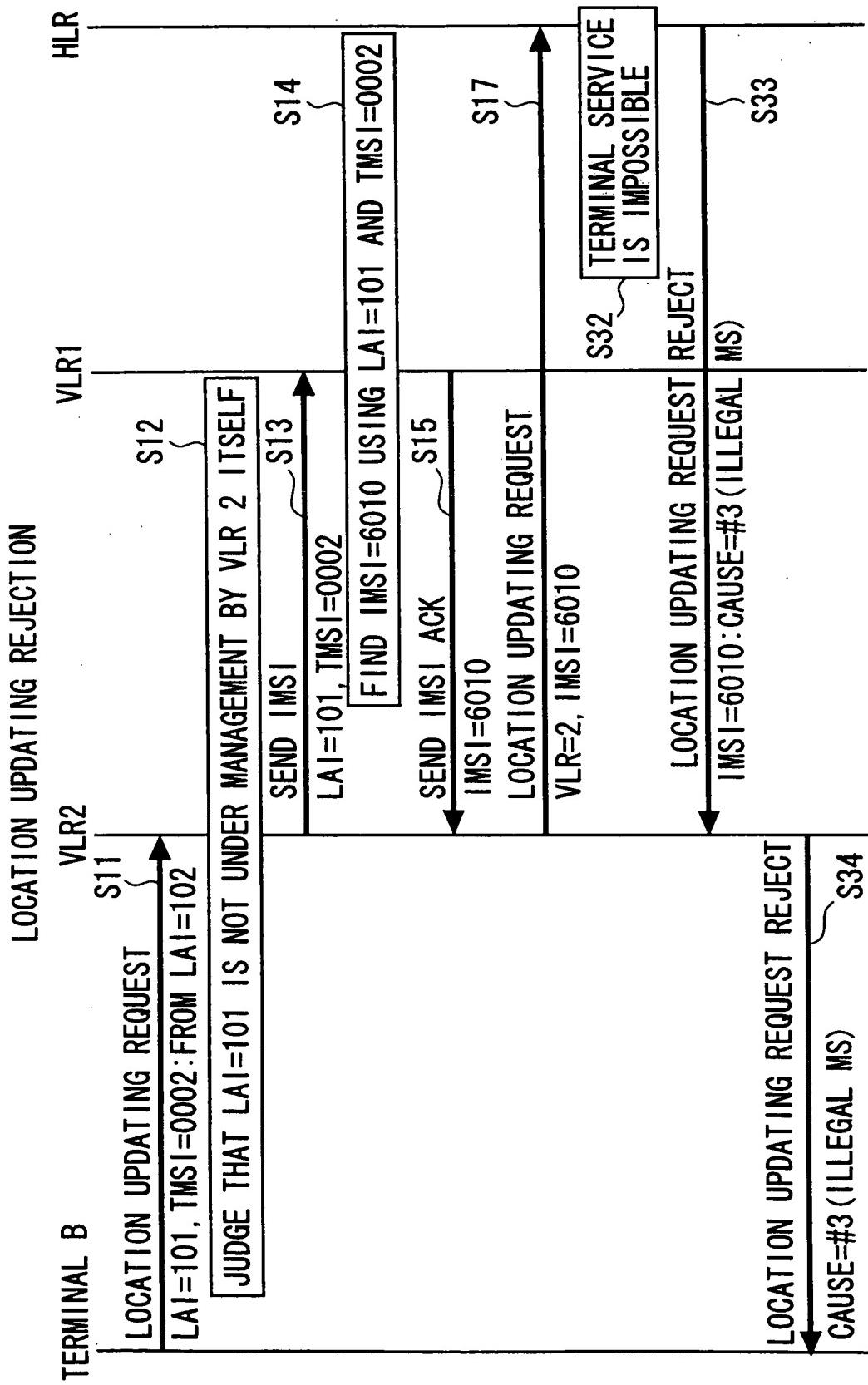


*F/G. 7*

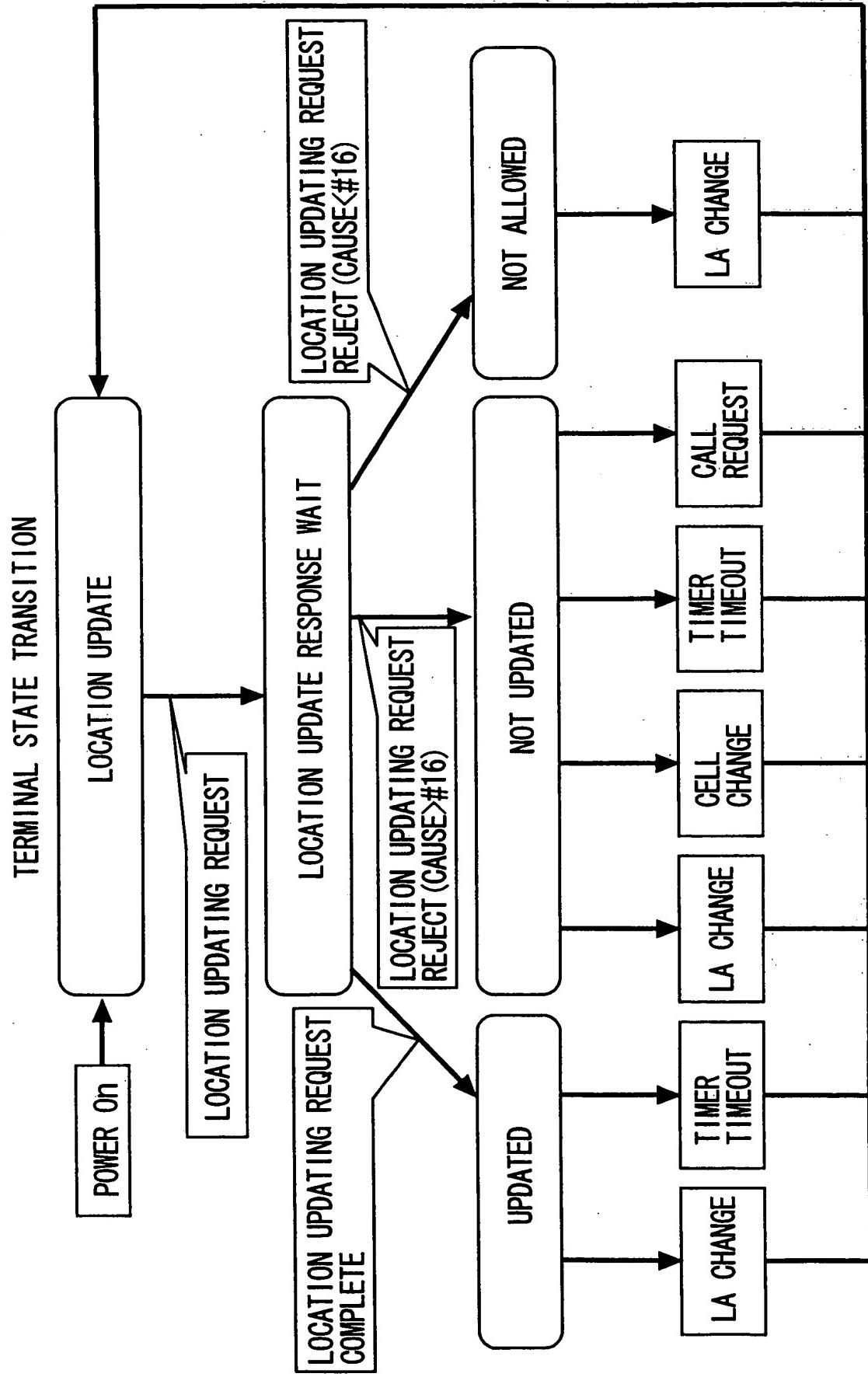
HLR/VLR UPDATING SEQUENCE (2)



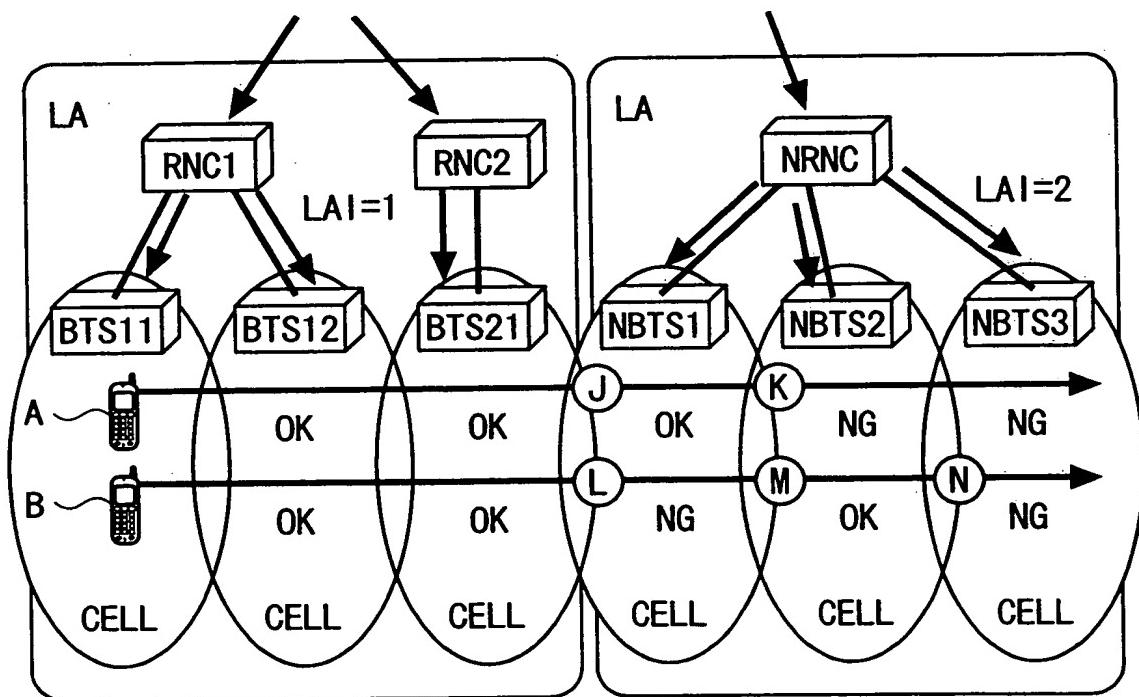
*F/G. 8*



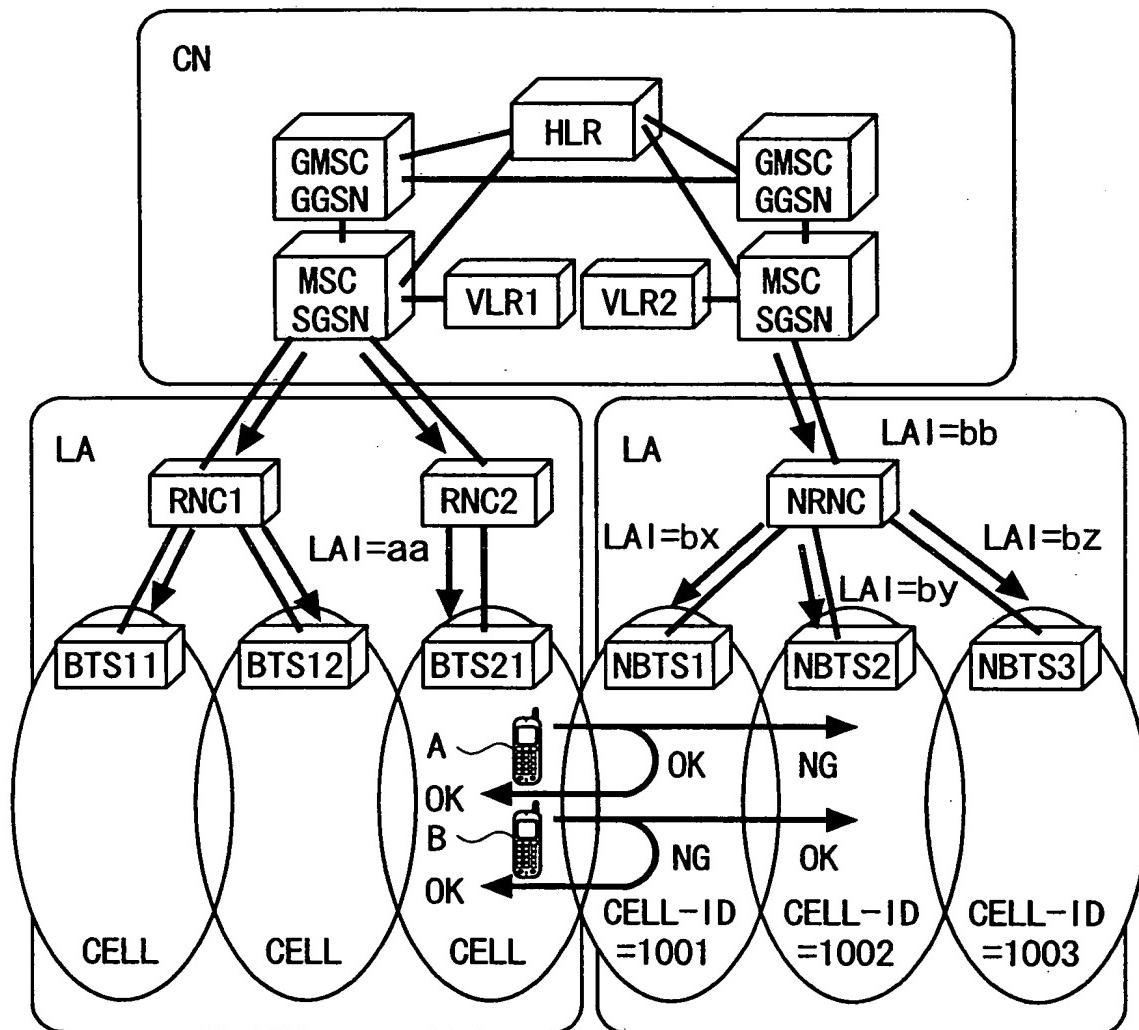
*FIG. 9*



*FIG. 10*



*FIG. 11A*



*FIG. 11B*

UPPER LAI No	BTS	LOWER LAI No
bb	NBTS1	bx
	NBTS2	by
	NBTS3	bz

F/G. 12

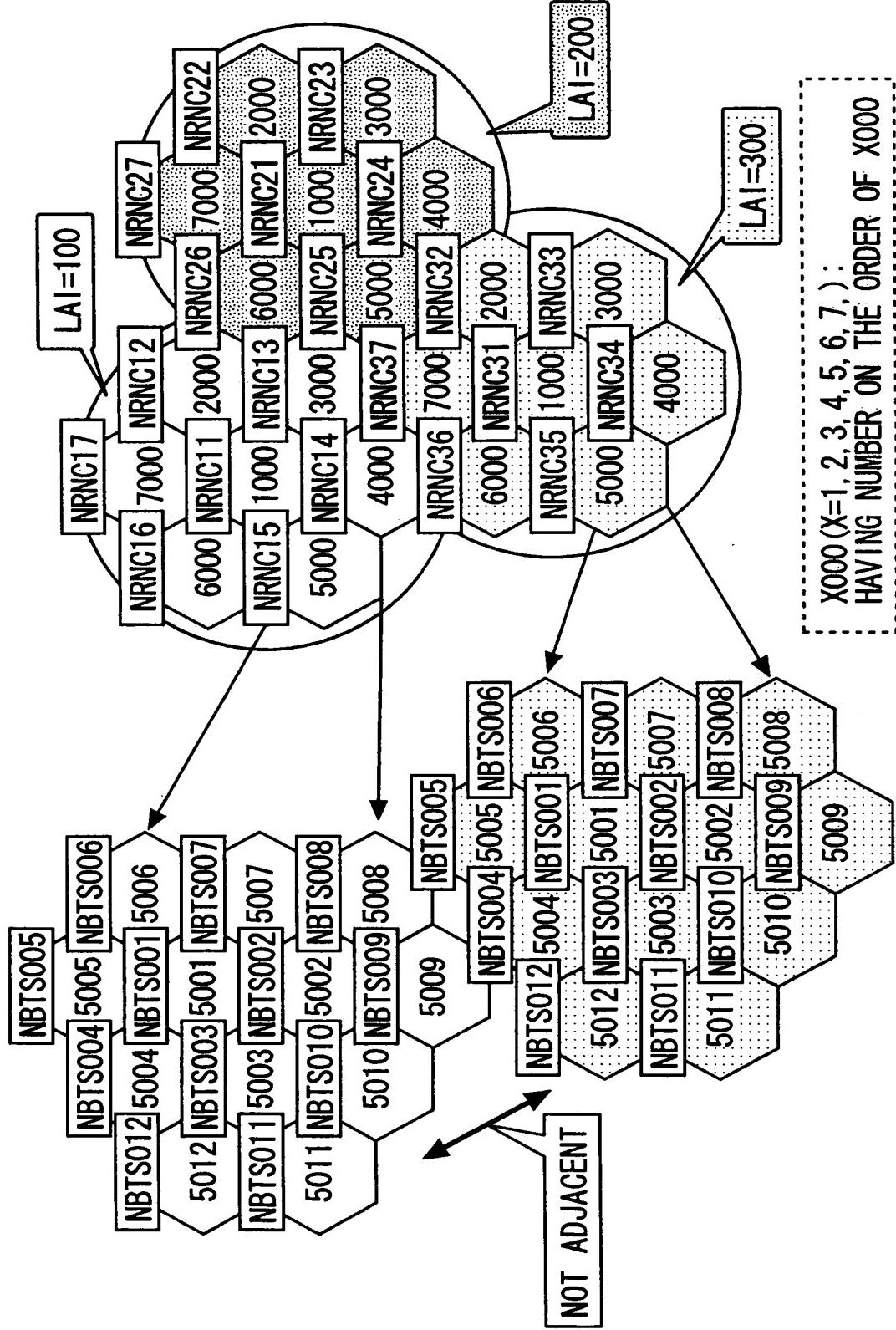


FIG. 13A

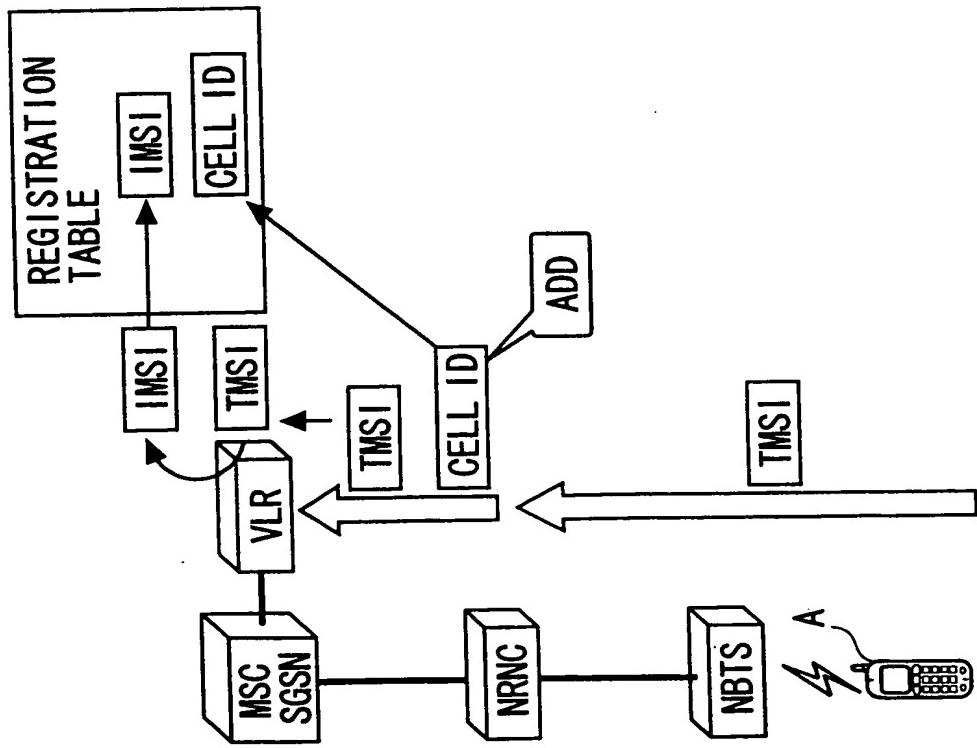
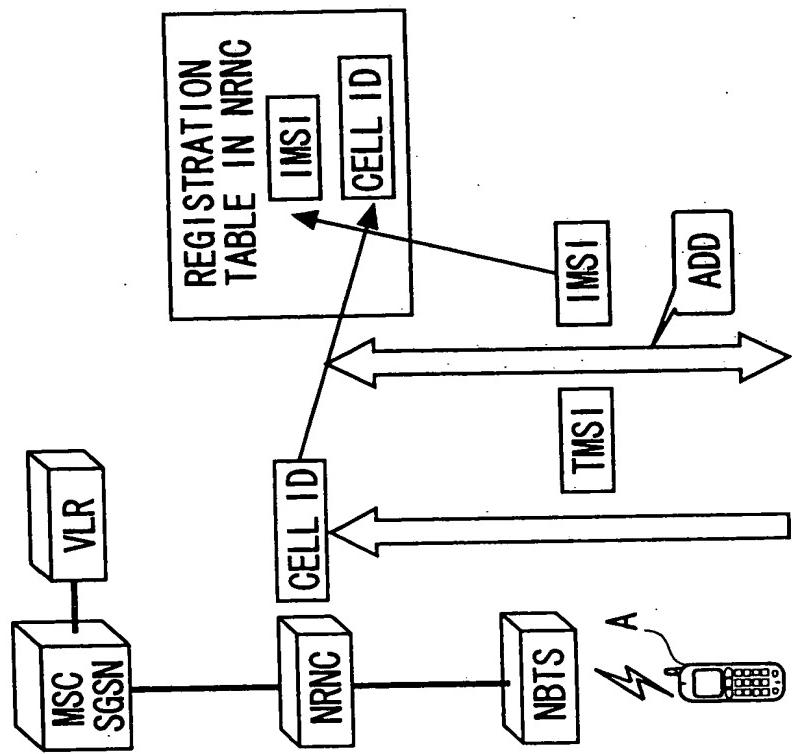
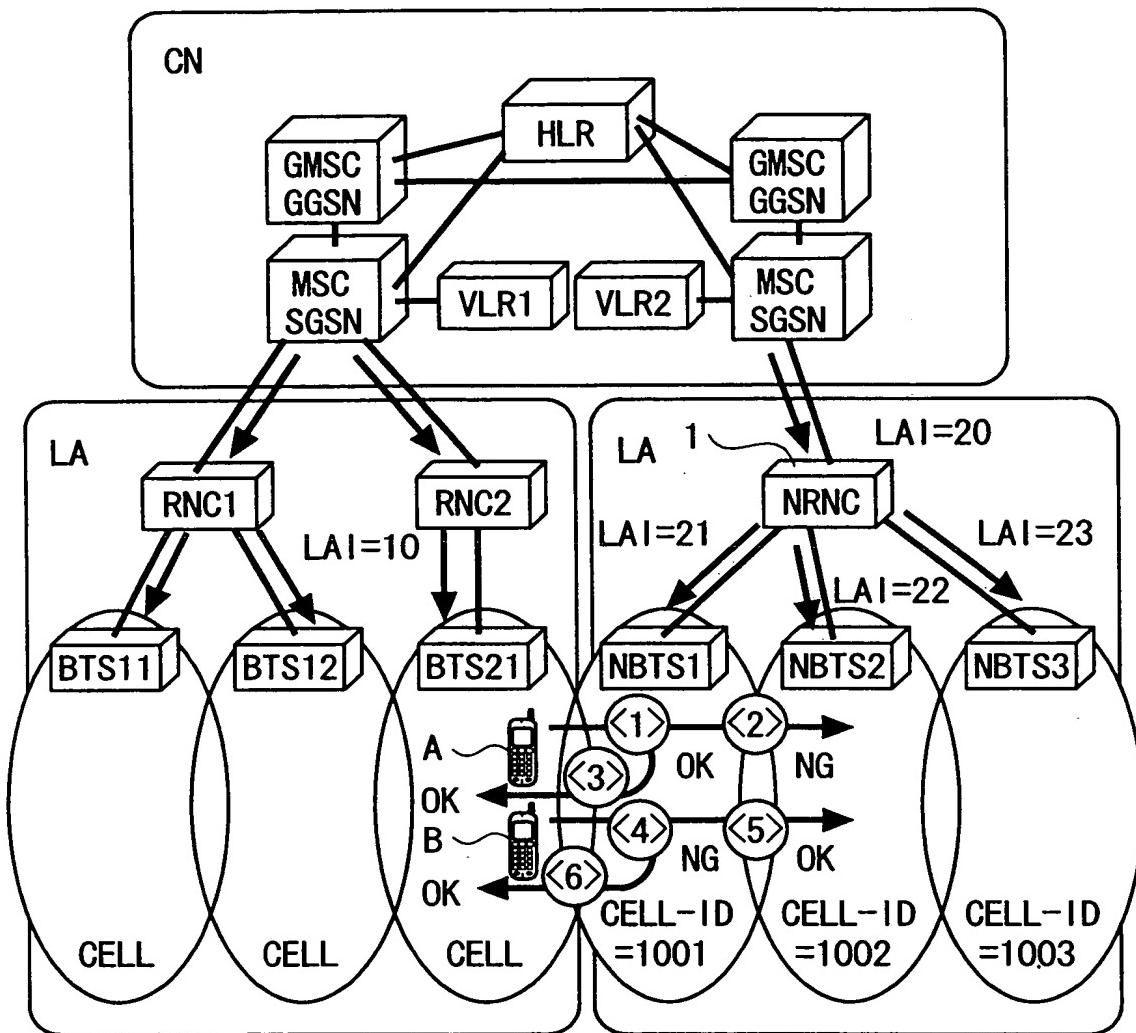


FIG. 13B



*FIG. 14A*



*FIG. 14B*

2

UPPER LAI No	BTS	LOWER LAI No
20	NBTS1	21
	NBTS2	22
	NBTS3	23

*FIG. 15A*

HLR		T11		
IMSI	VLR NUMBER	IMSI	LAI	TMSI
1100	1	1100	10	0001
2100	1	2100	10	0002
.	.	.	.	.
.	.	.	.	.

VLR1		T21		
IMSI	LAI	IMSI	LAI	TMSI
1100	10	0001		
2100	10	0002		
.	.	.	.	.
.	.	.	.	.

VLR2		T31		
IMSI	LAI	IMSI	LAI	TMSI
.	.	.	.	.
.	.	.	.	.

CHANGE  
MADE  
AT <3>

CHANGE  
MADE  
AT <1>

HLR		T12		
IMSI	VLR NUMBER	IMSI	LAI	TMSI
1100	2	2100	10	0002
2100	1			
.	.	.	.	
.	.	.	.	

VLR1		T22		
IMSI	LAI	IMSI	LAI	TMSI
2100	10	0002		

VLR2		T32		
IMSI	LAI	IMSI	LAI	TMSI
1100	20	0001		

NO CHANGE IS MADE AT <2>

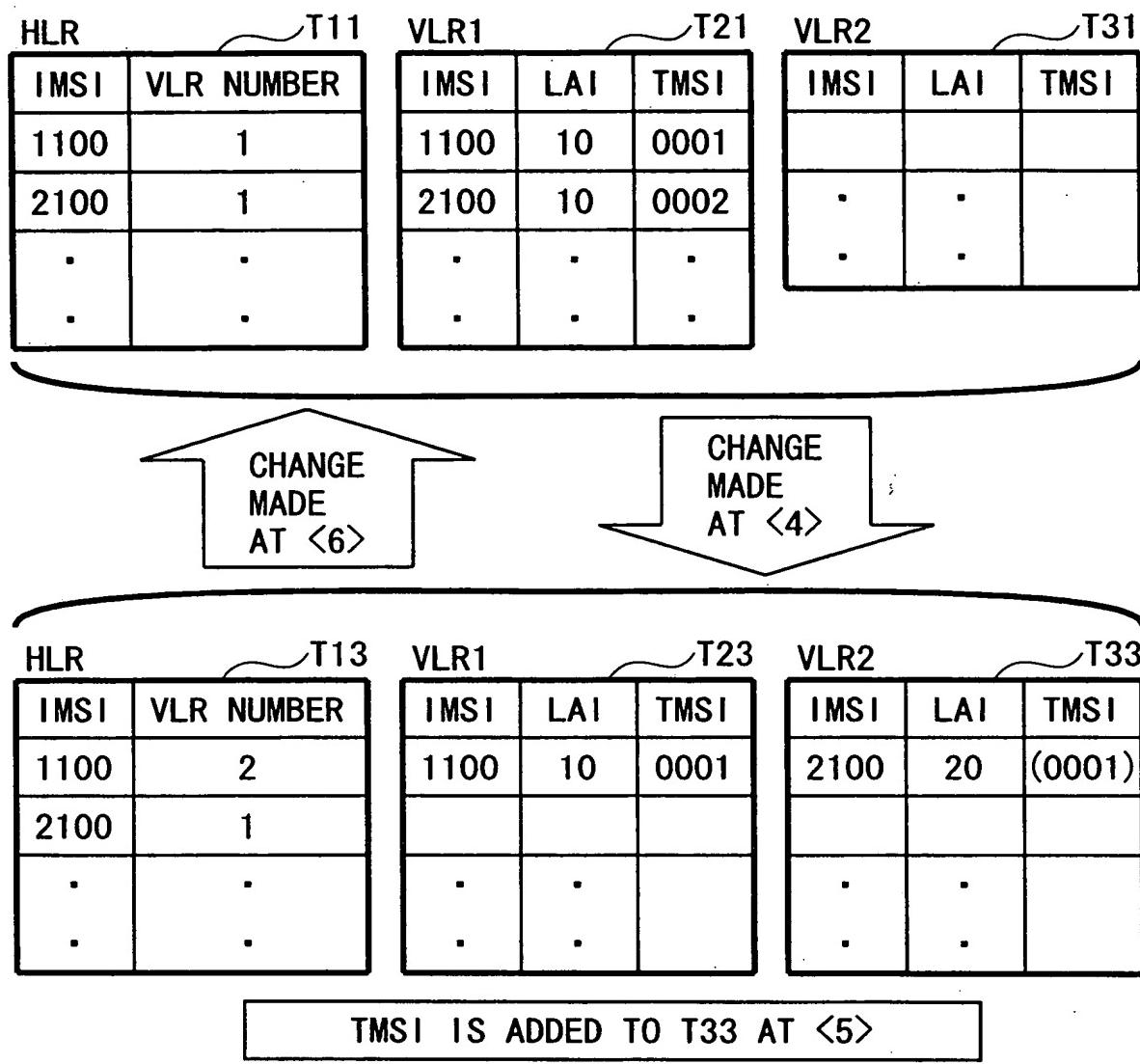
*FIG. 15B*

TERMINAL REGISTRATION TABLE

3

BTS	CELL-ID	IMSI	
NBTS1	1001	1100	MULTIPLE IS POSSIBLE
NBTS2	1002	2100	
NBTS3	1003		

*FIG. 16A*



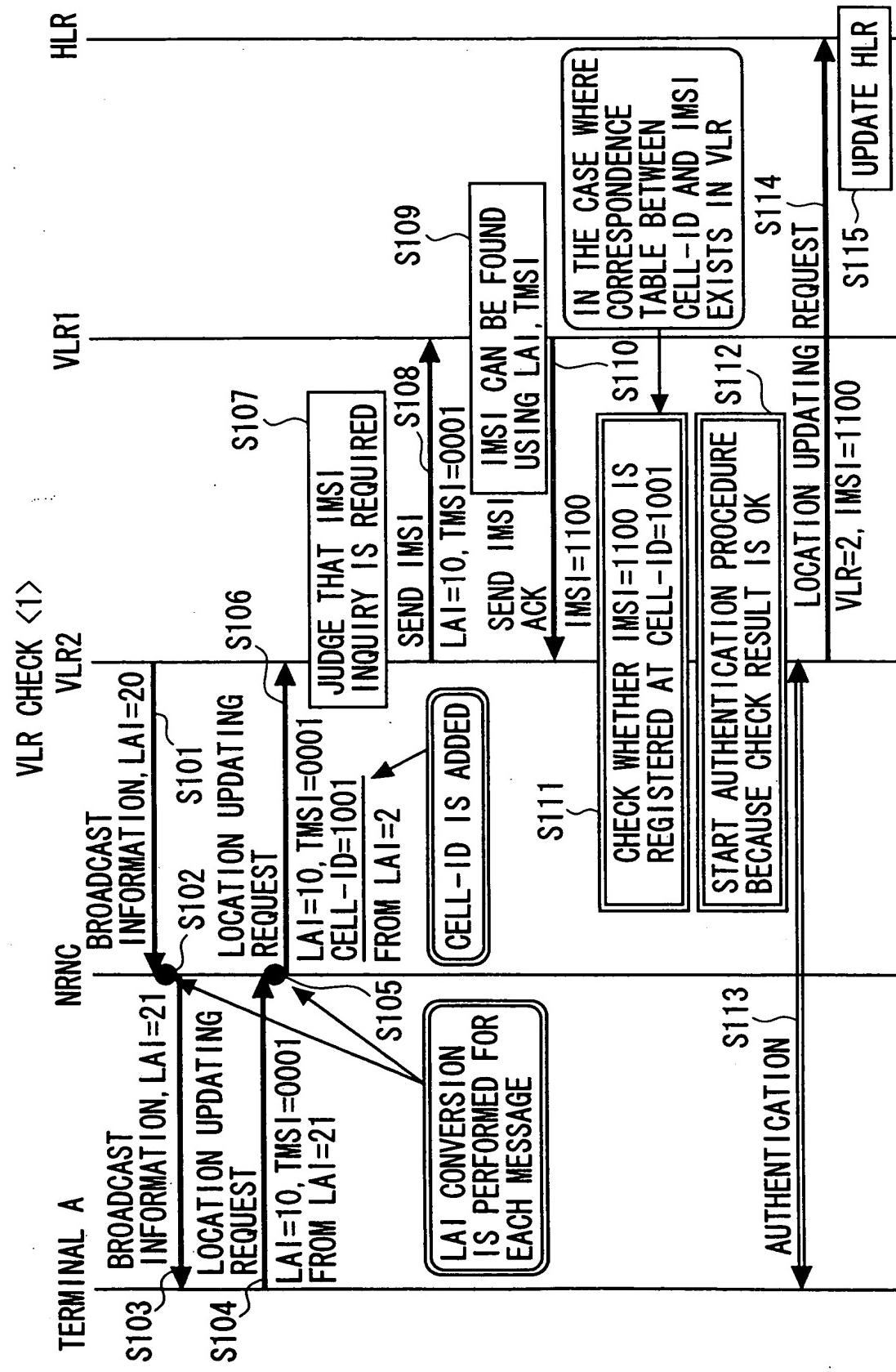
*FIG. 16B*

TERMINAL REGISTRATION TABLE

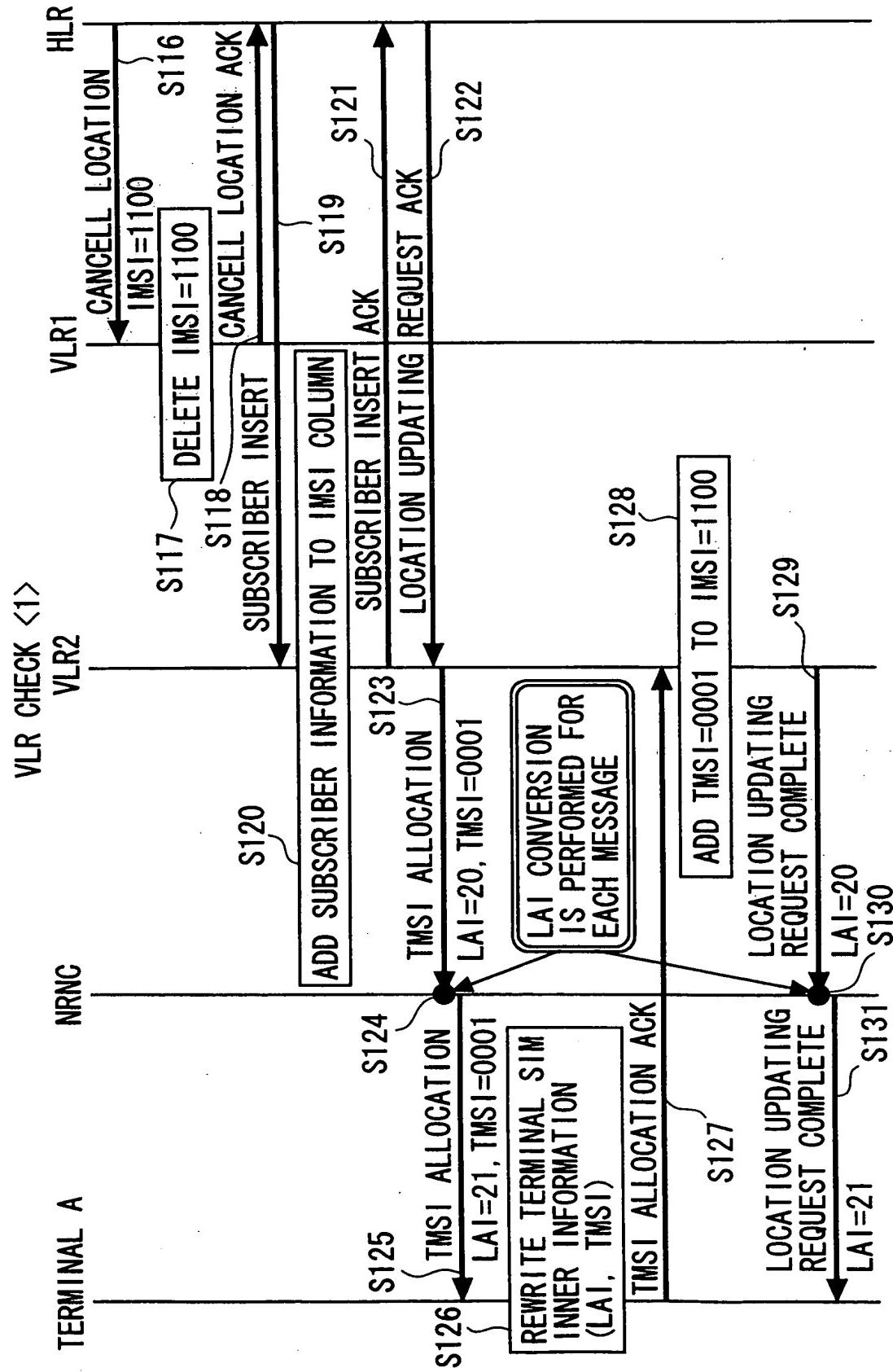
3

BTS	CELL-ID	IMSI	
NBTS1	1001	1100	MULTIPLE IS POSSIBLE
NBTS2	1002	2100	
NBTS3	1003		

*FIG. 17*



*F/G. 18*



*F/G. 19*

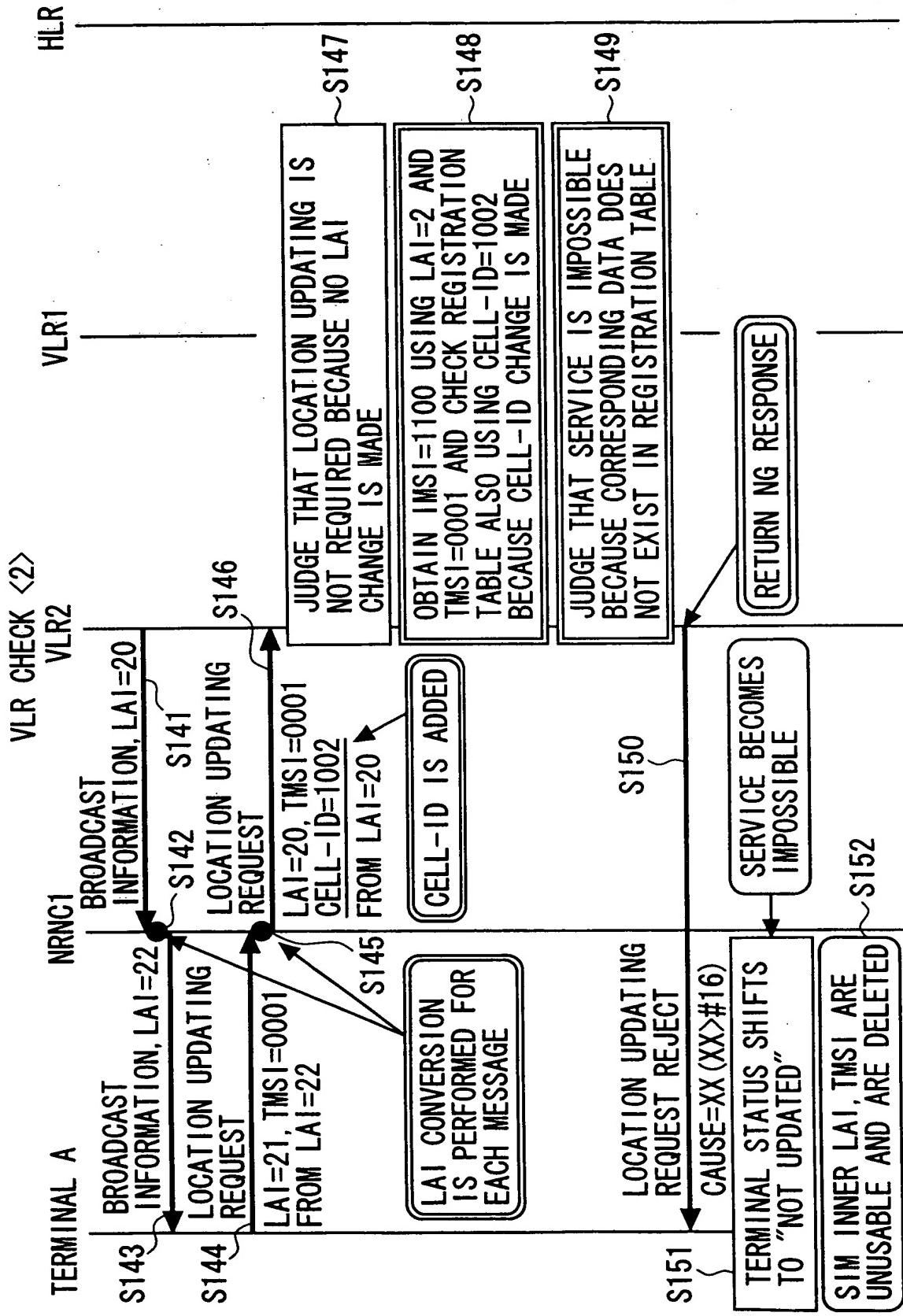
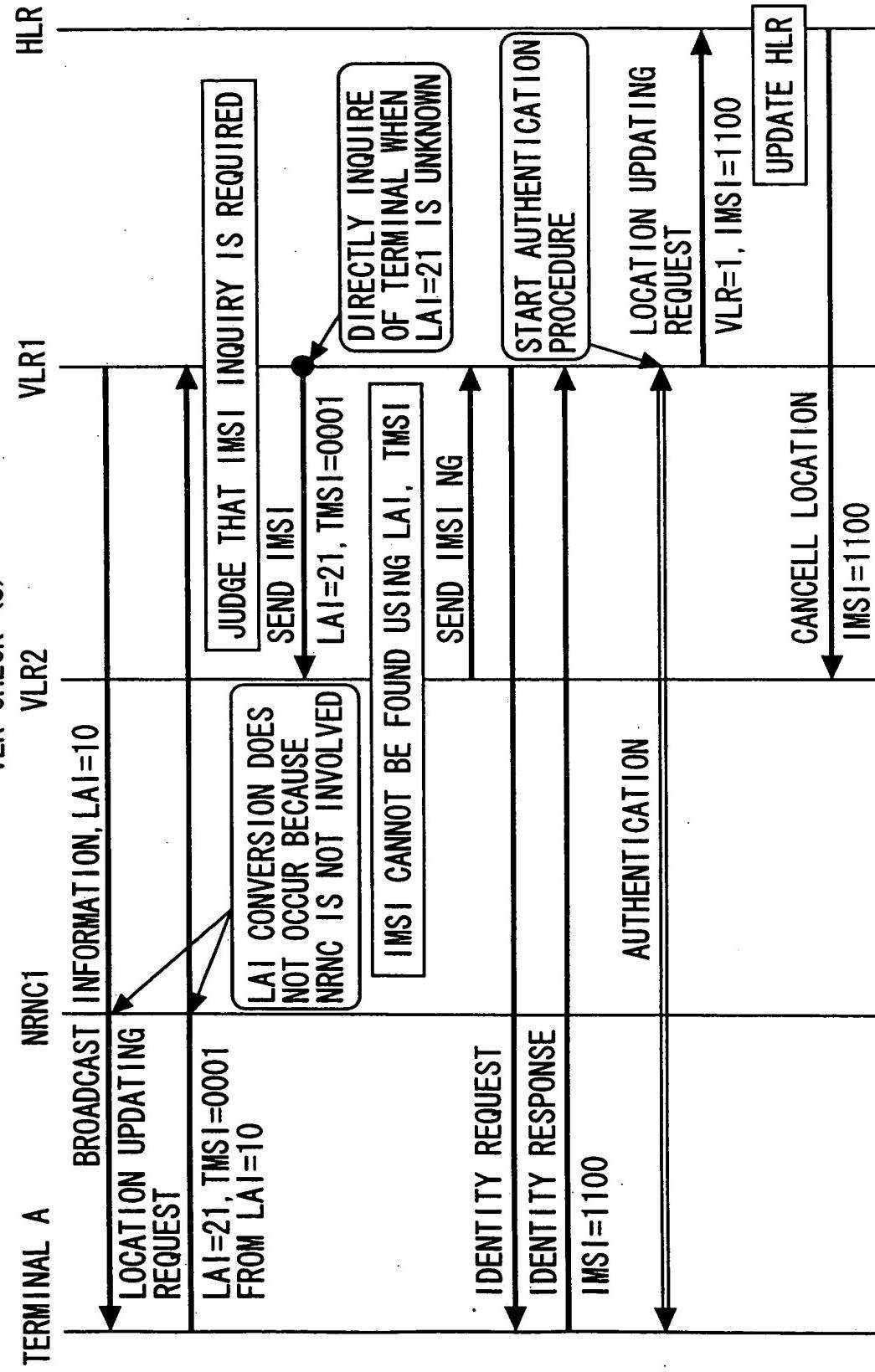
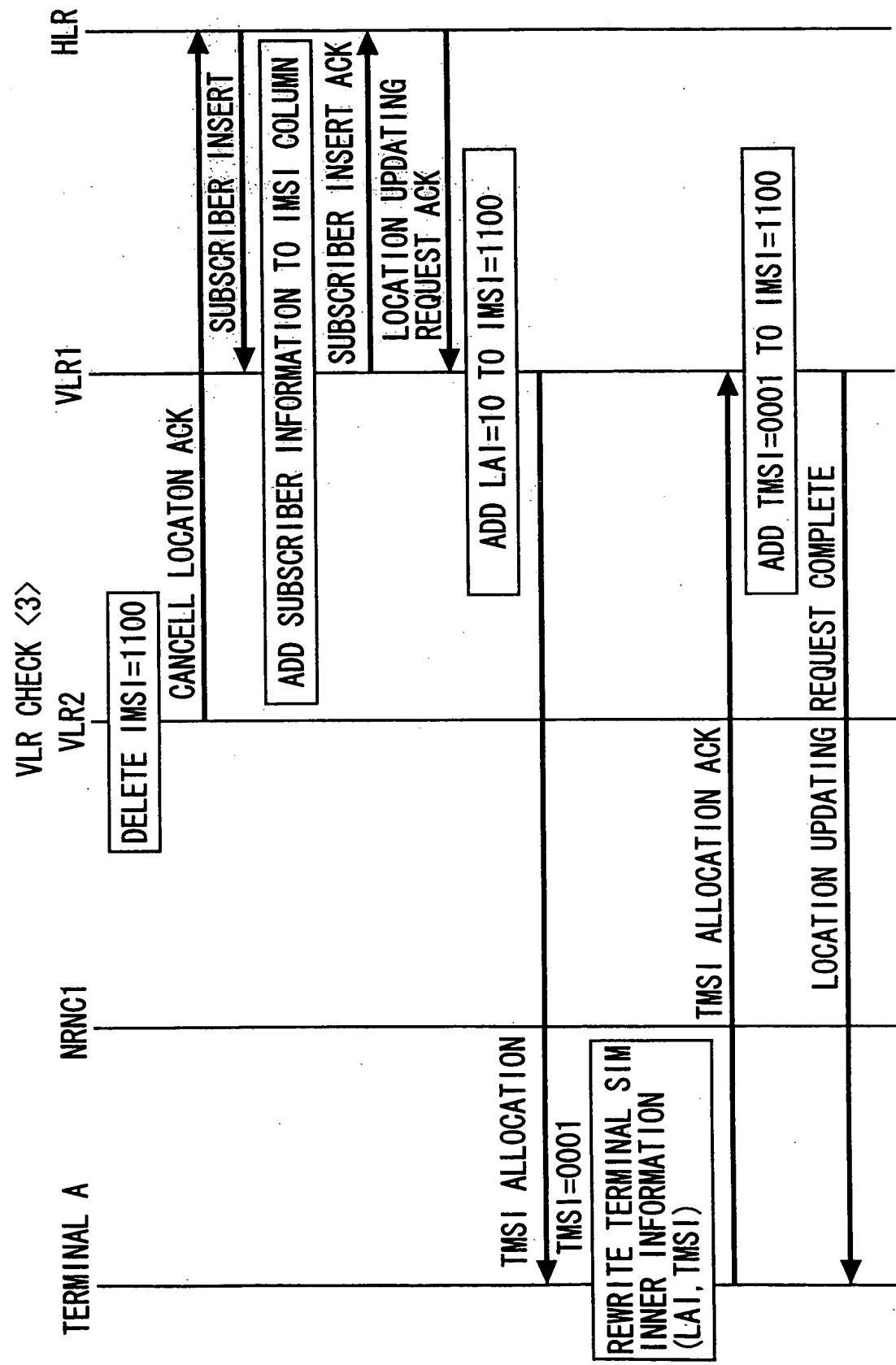


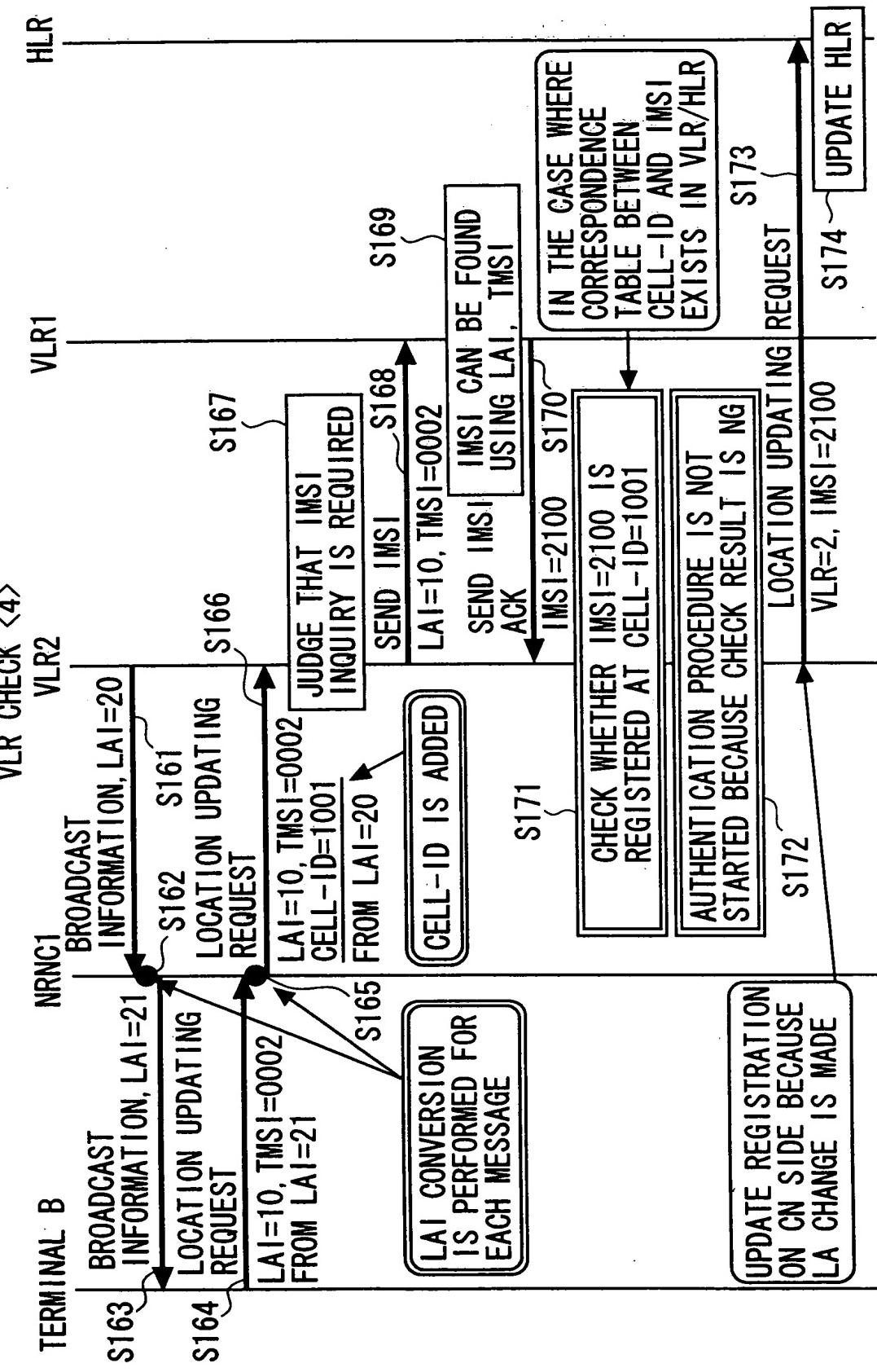
FIG. 20



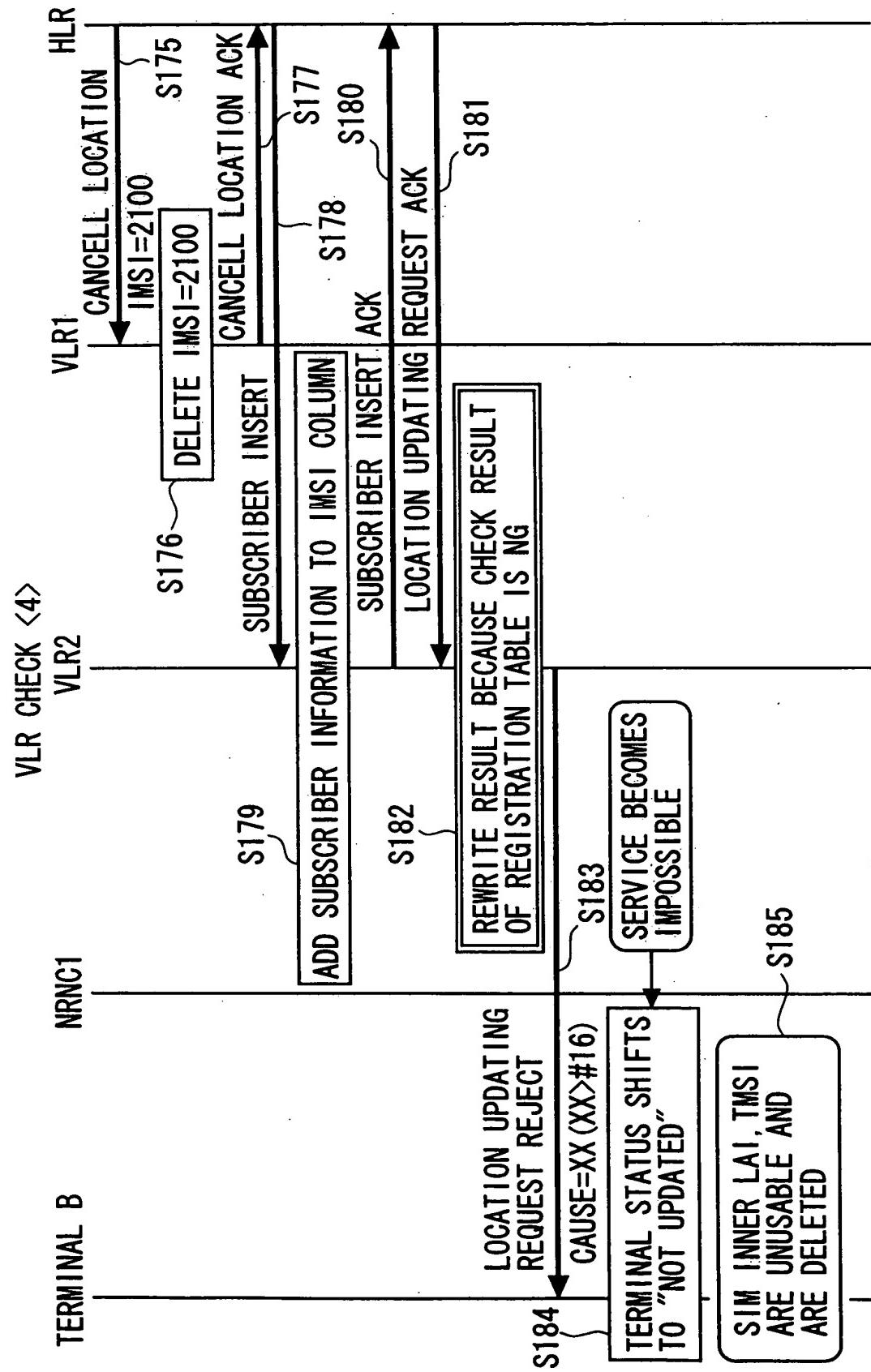
*FIG. 21*



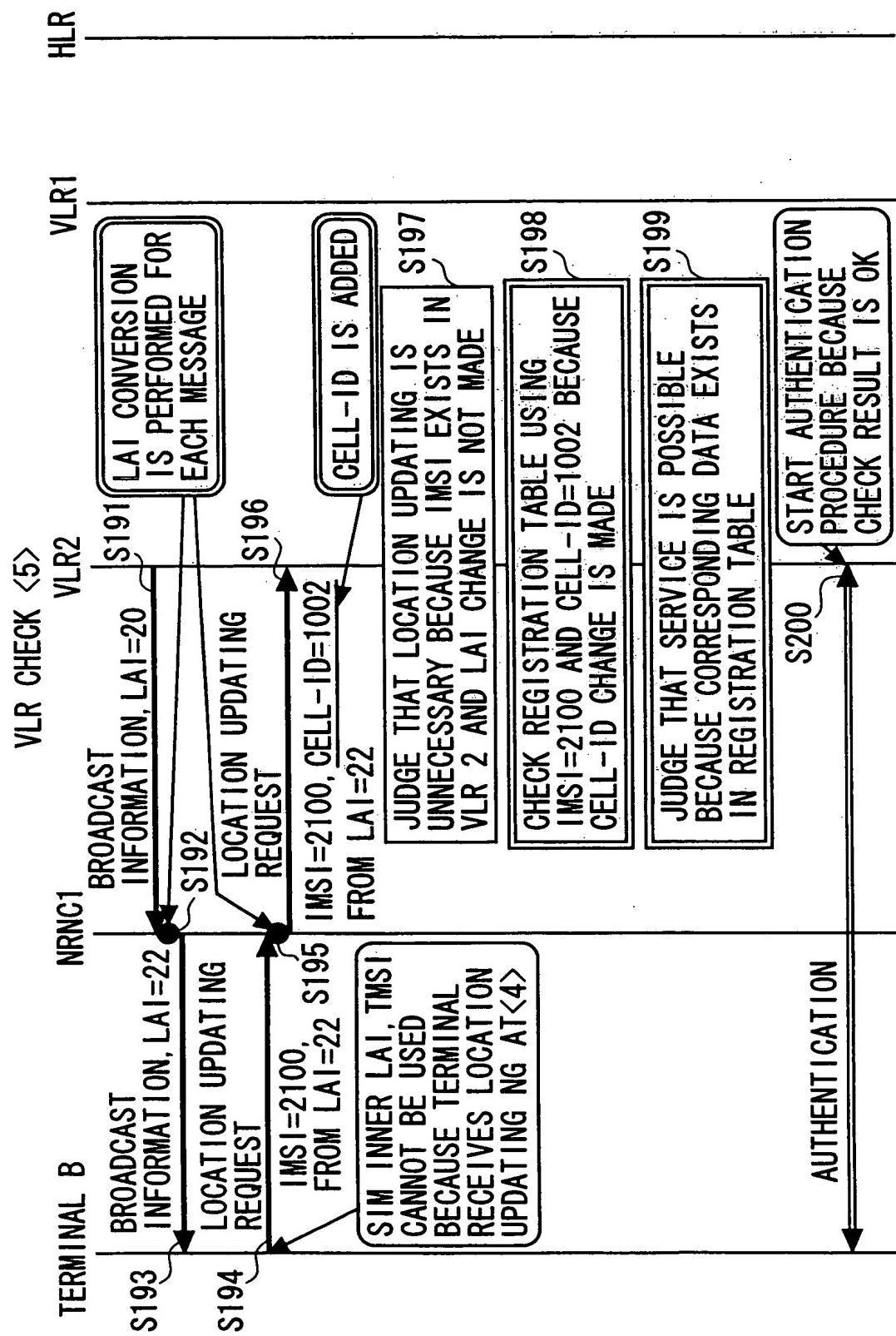
*FIG. 22*



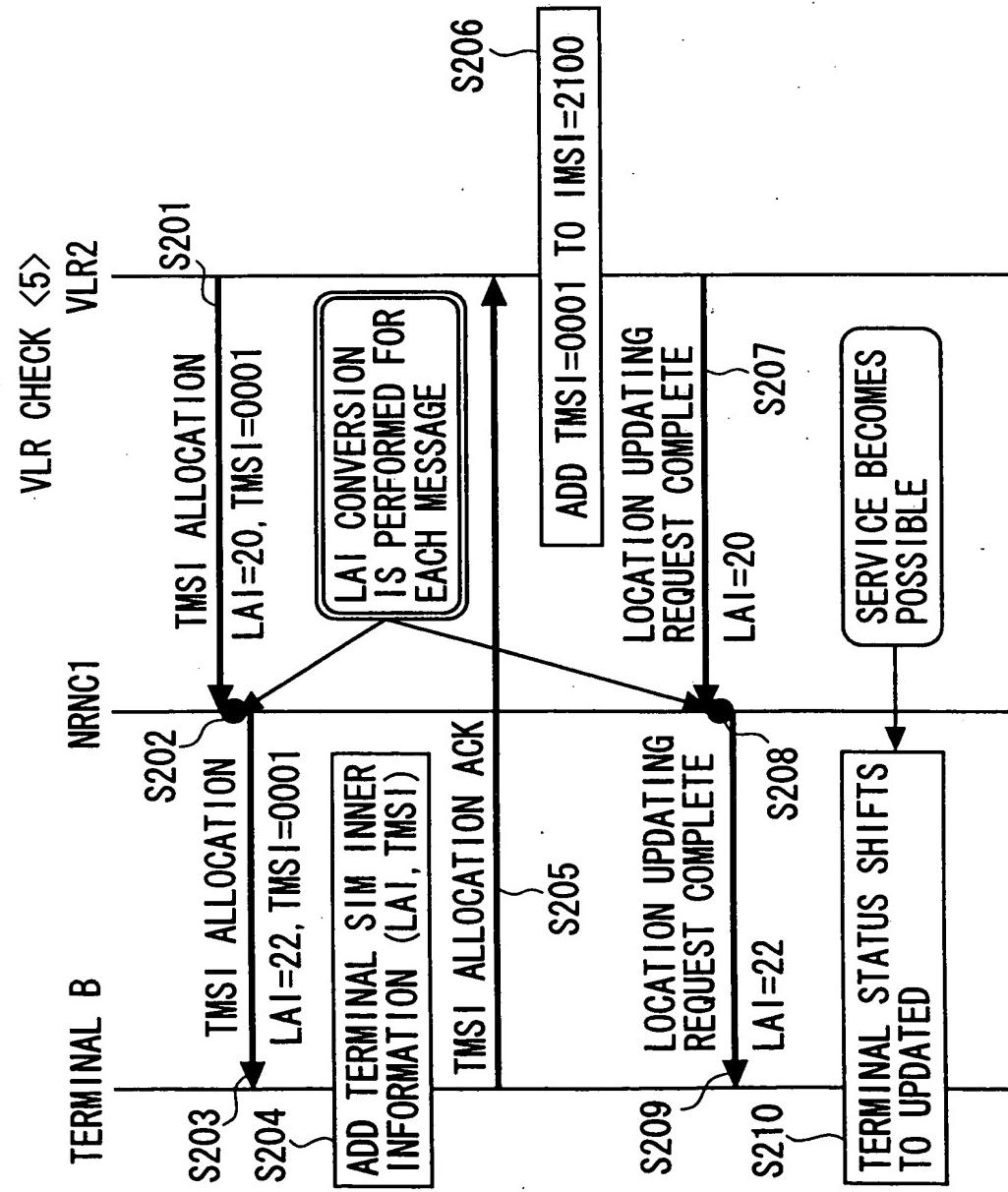
F/G. 23



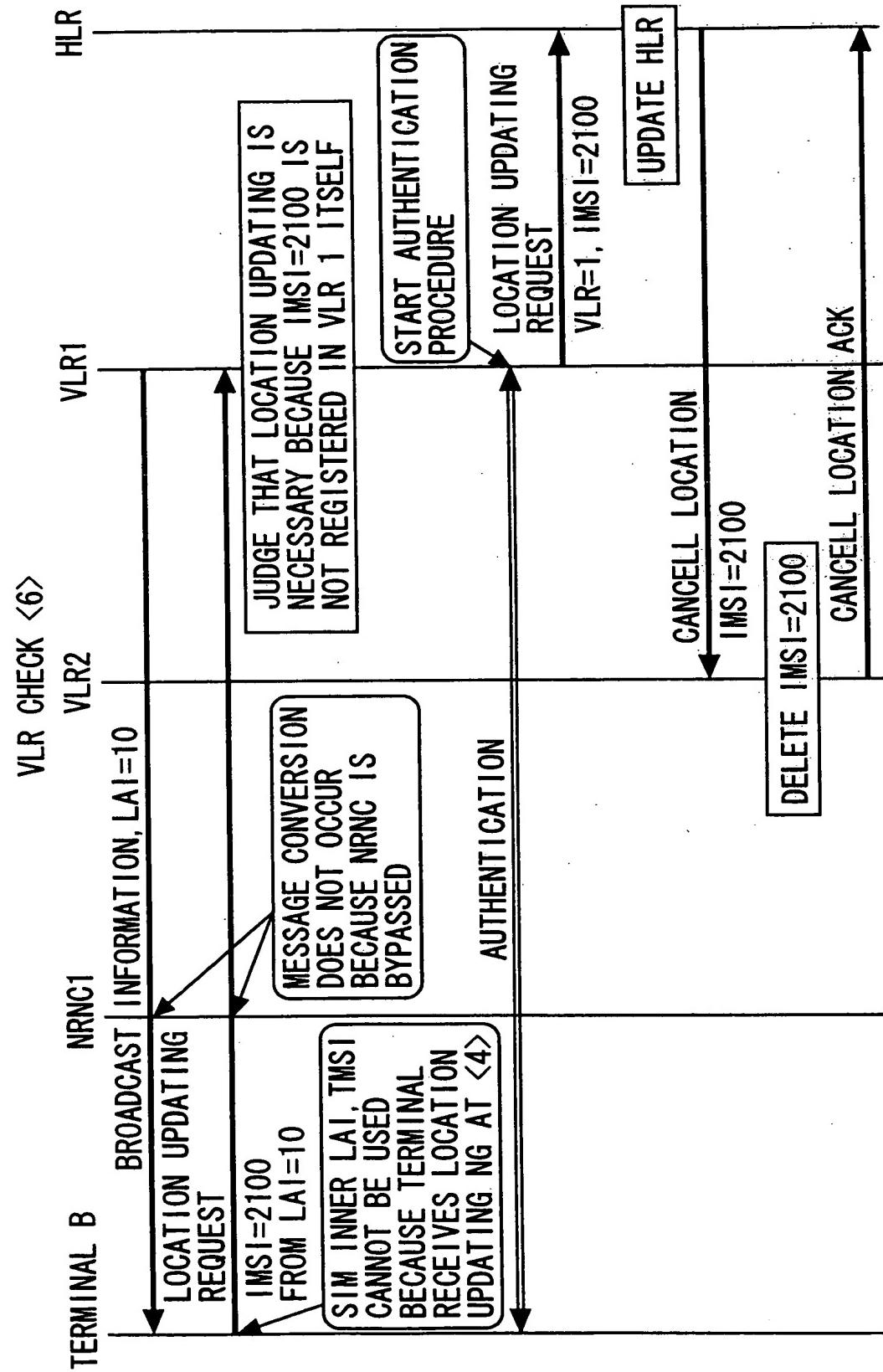
F/G. 24A



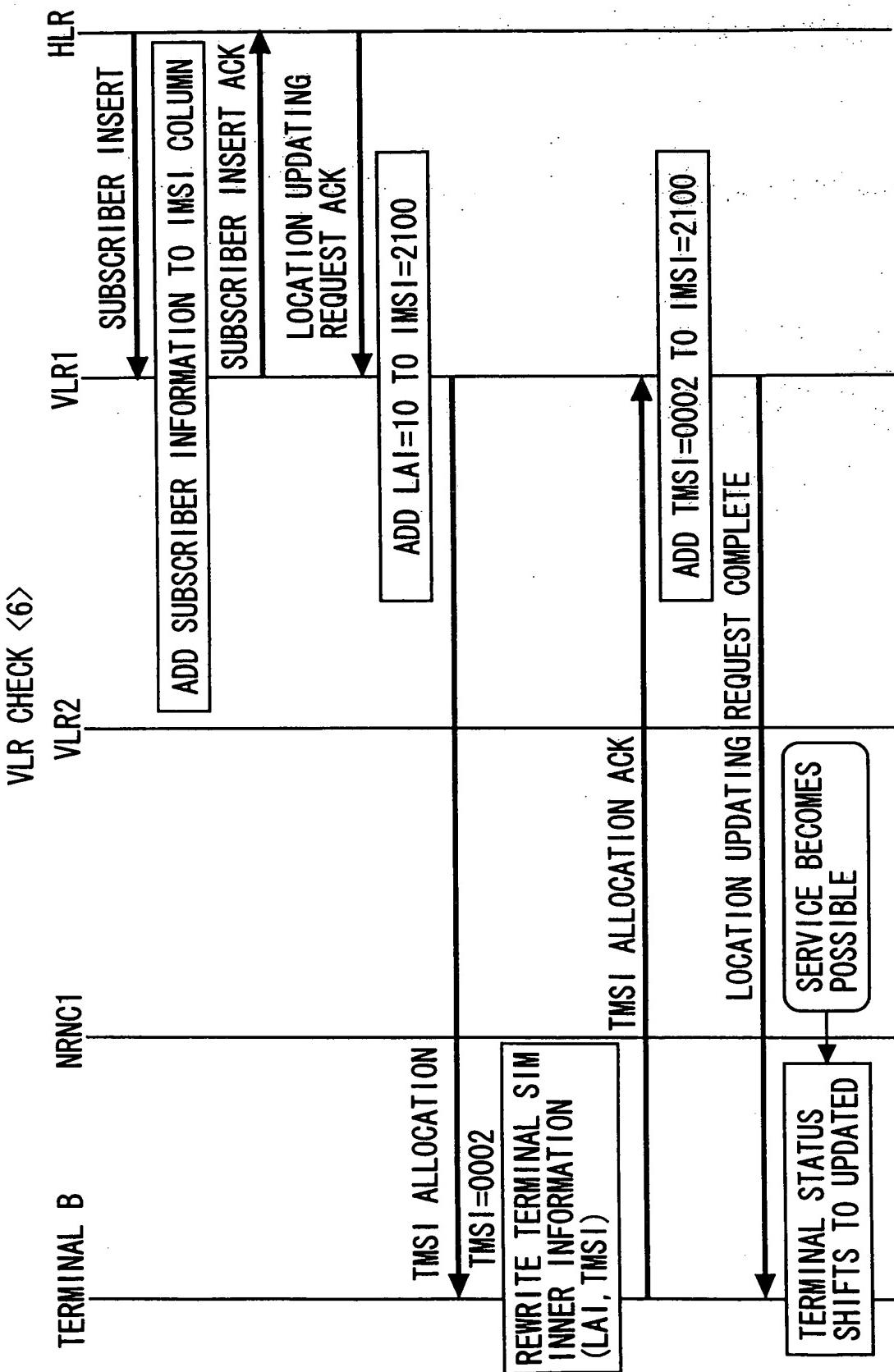
*F/G. 24B*



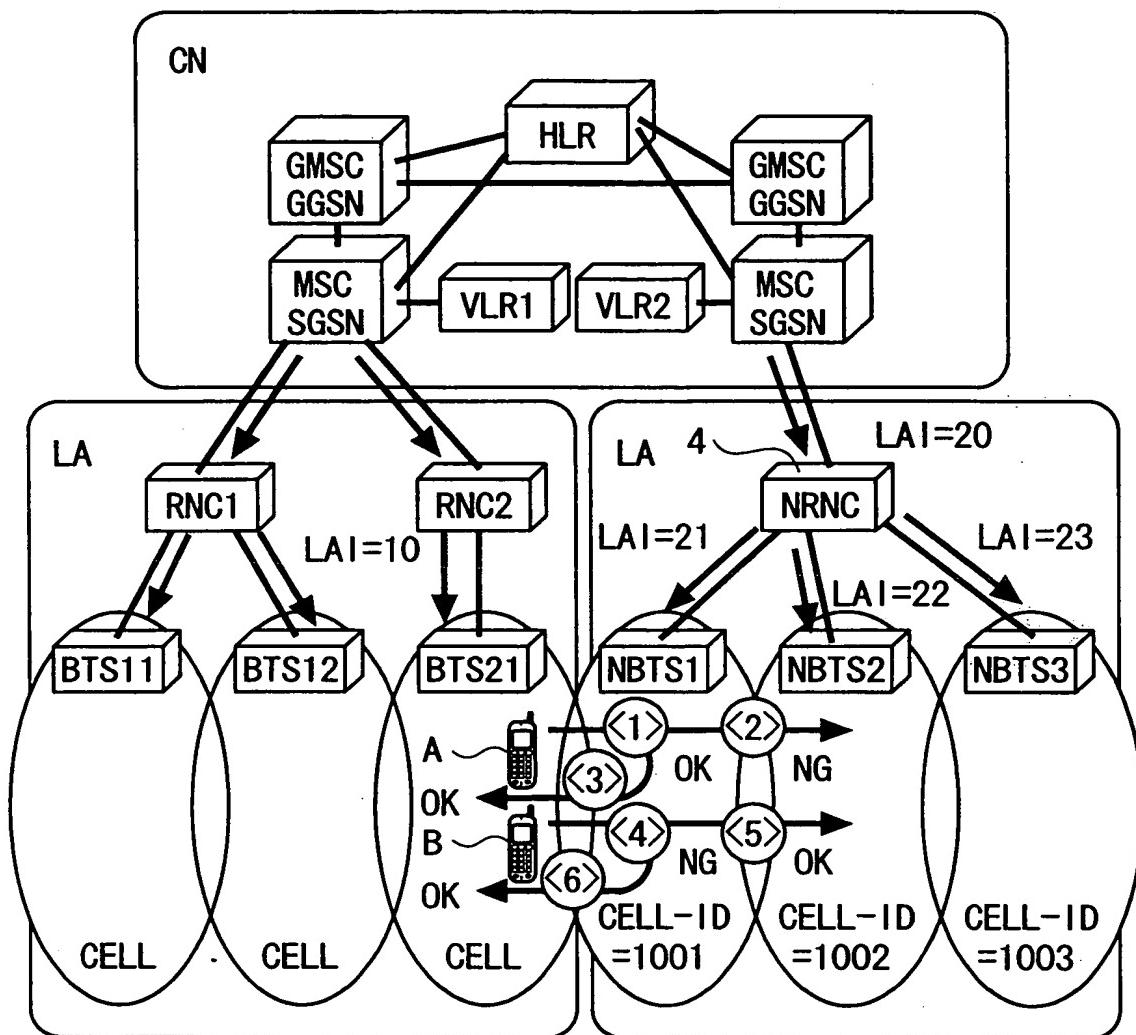
*FIG. 25*



*FIG. 26*



*FIG. 27A*

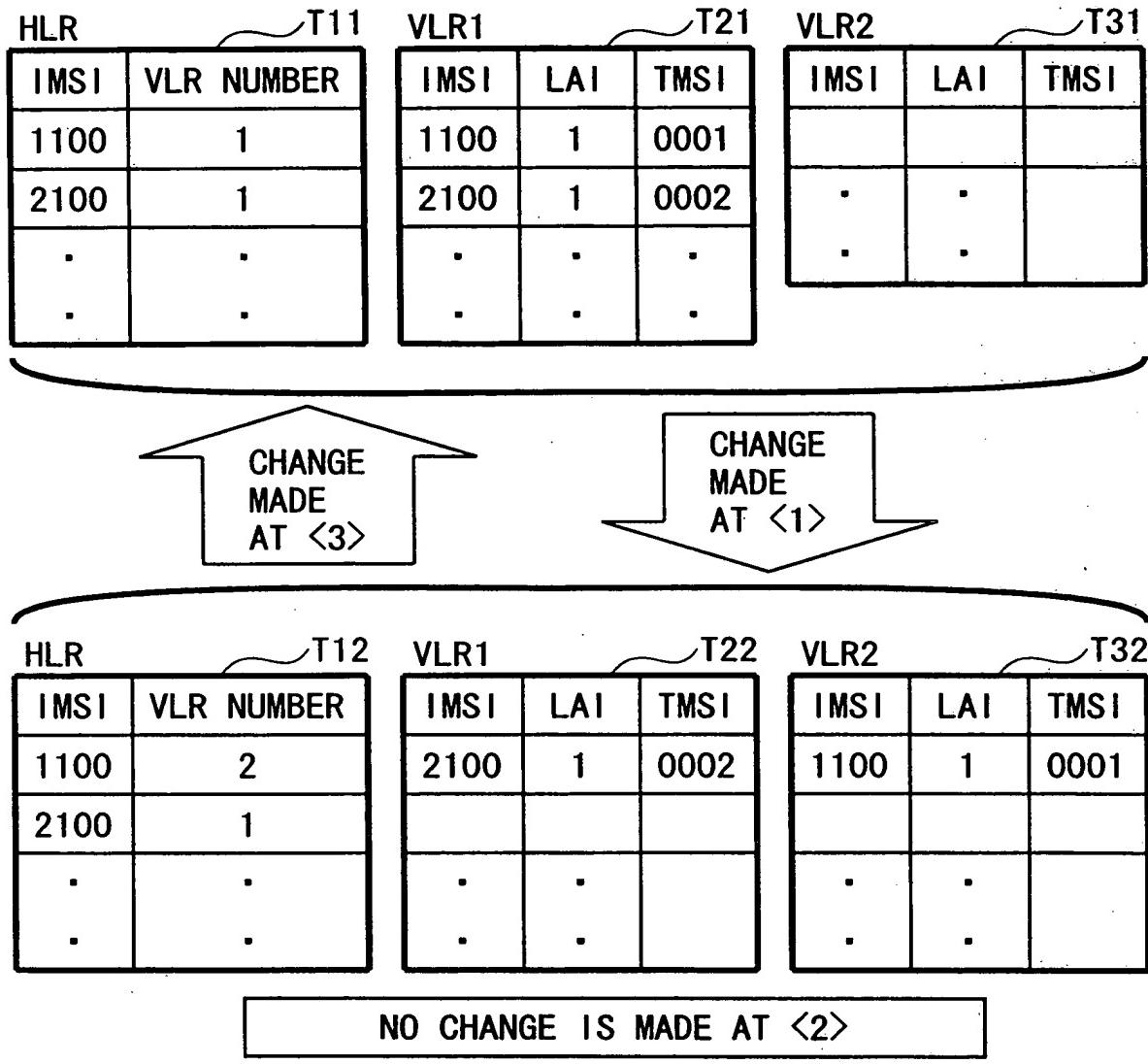


*FIG. 27B*

5

UPPER LAI No	BTS	LOWER LAI No
20	NBTS1	21
	NBTS2	22
	NBTS3	23

*FIG. 28A*



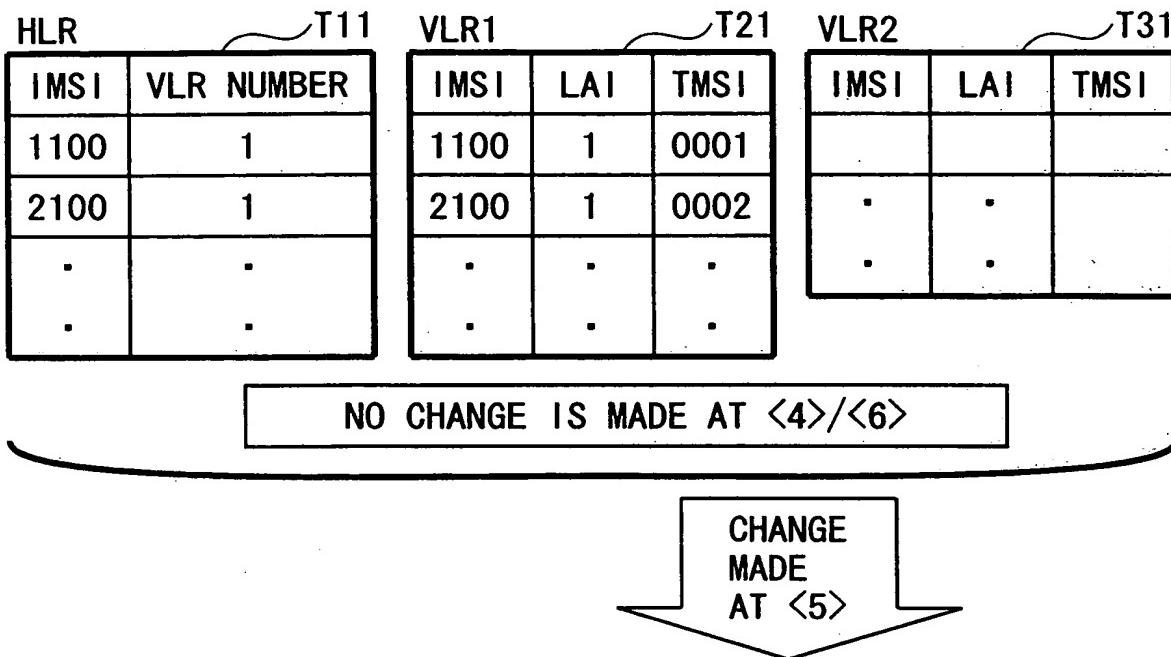
*FIG. 28B*

TERMINAL REGISTRATION TABLE

6

BTS	CELL-ID	IMSI	TMSI
NBTS1	1001	1100	0001
NBTS2	1002	2100	
NBTS3	1003		

*FIG. 29A*



HLR		T13			VLR1		T23			VLR2		T33		
IMSI	VLR NUMBER				IMSI	LAI	TMSI			IMSI	LAI	TMSI		
1100	2				1100	1	0001			2100	1	0001		
2100	1													
.	.				.	.				.	.			
.	.				.	.				.	.			

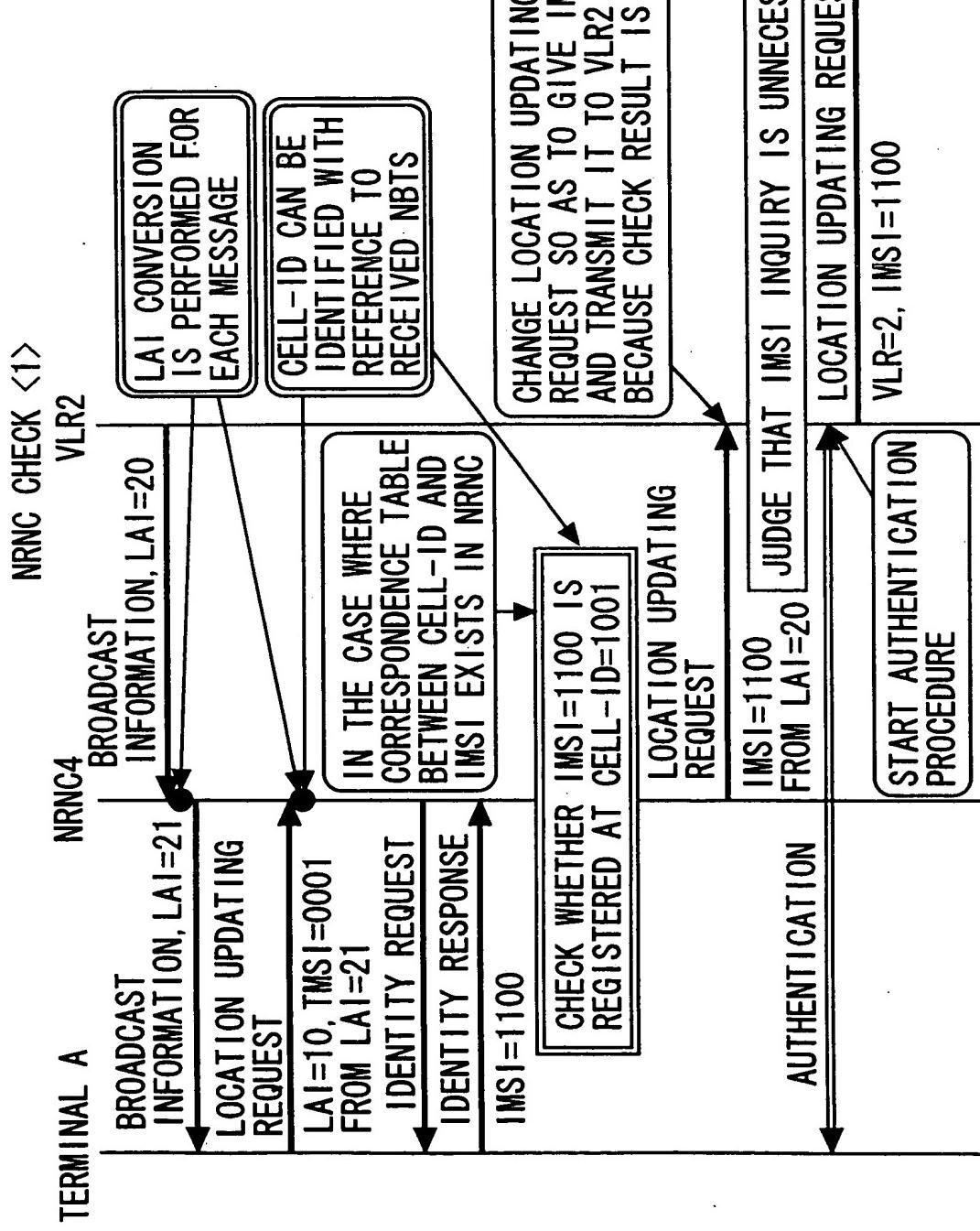
*FIG. 29B*

TERMINAL REGISTRATION TABLE

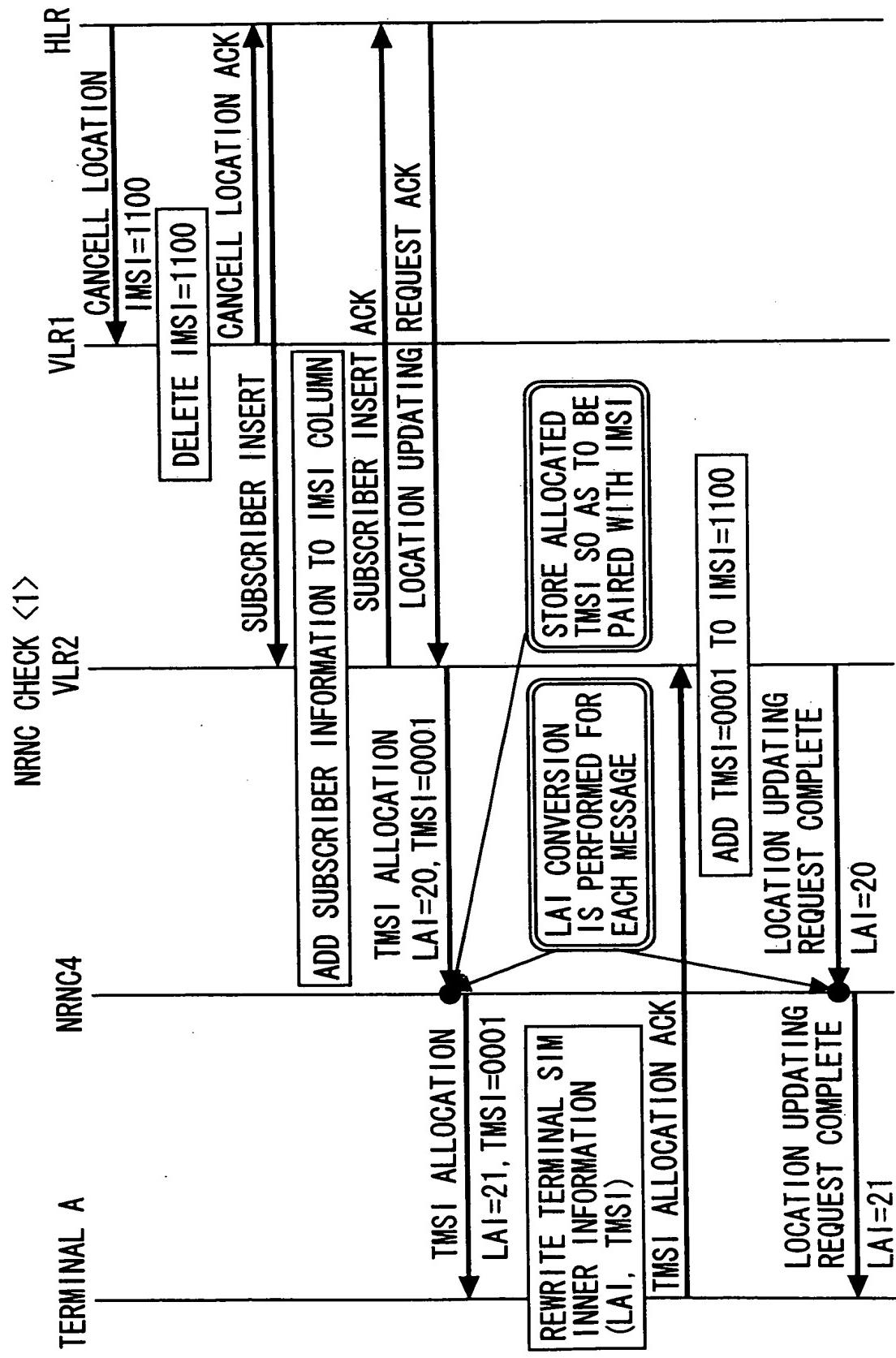
BTS	CELL-ID	IMSI	TMSI
NBTS1	1001	1100	
NBTS2	1002	2100	0001
NBTS3	1003		

6

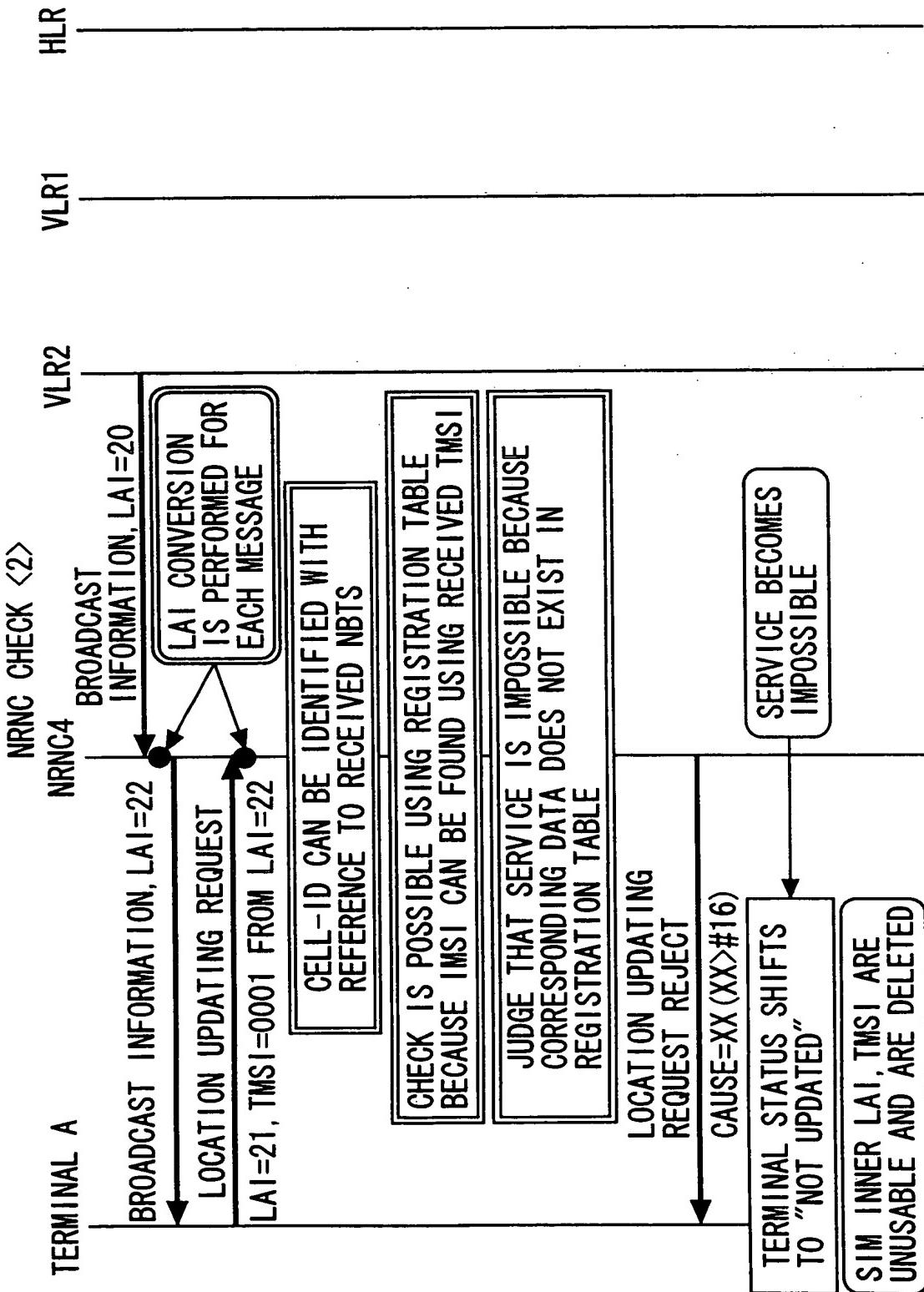
*F/G. 30*



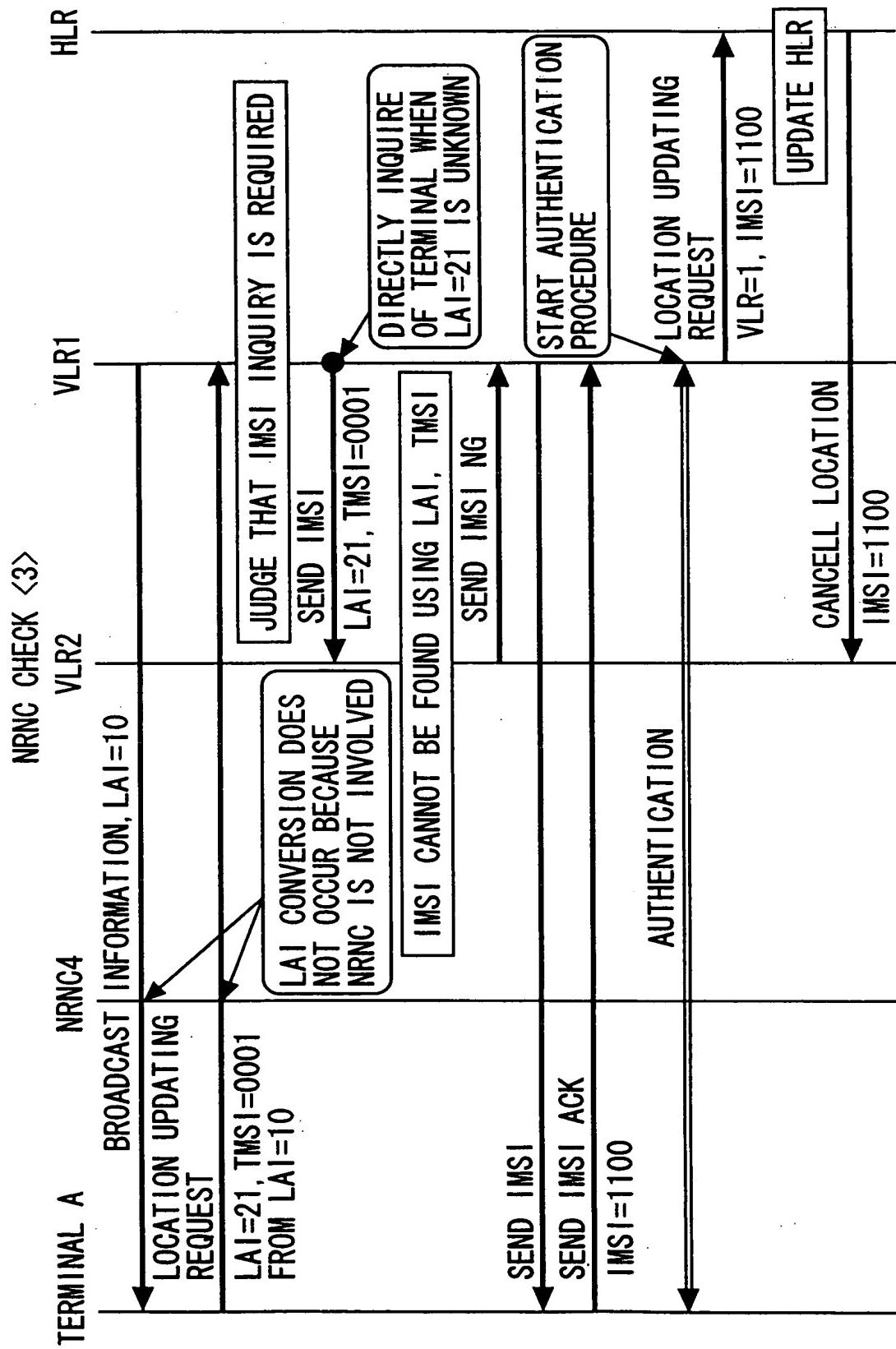
*FIG. 31*



*FIG. 32*

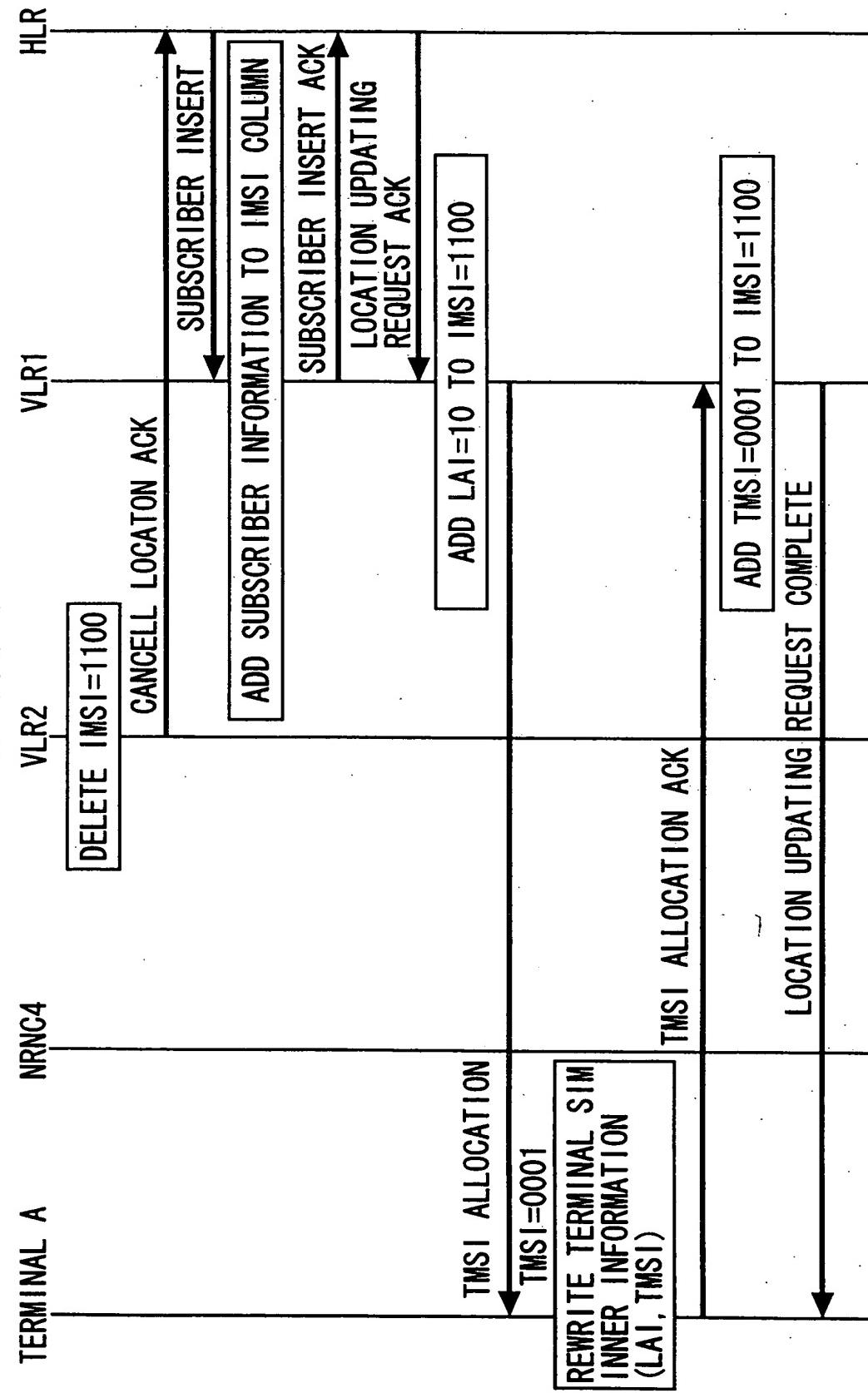


*FIG. 33*

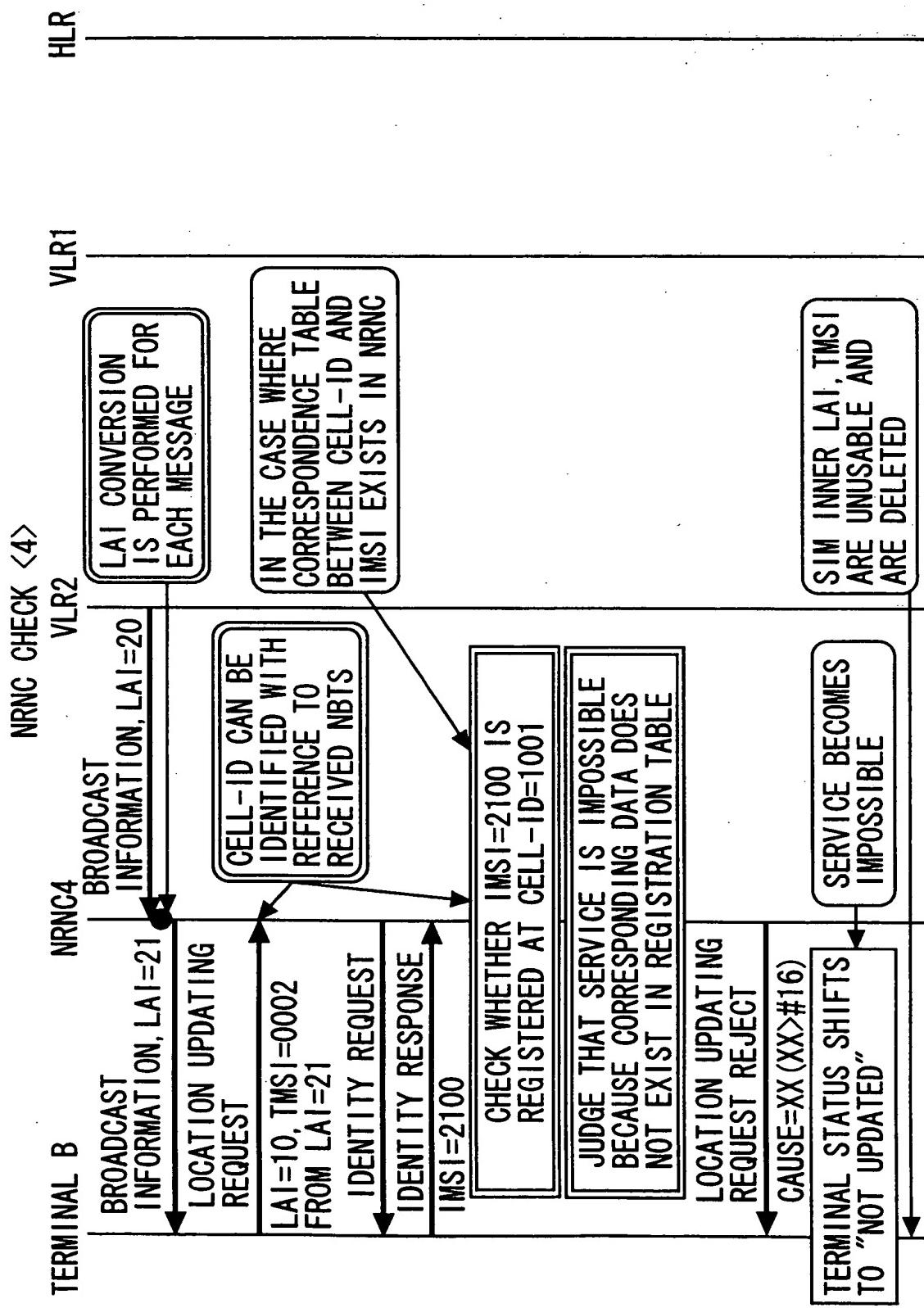


*FIG. 34*

MRNC CHECK <3>



F/G. 35



*FIG. 36A*

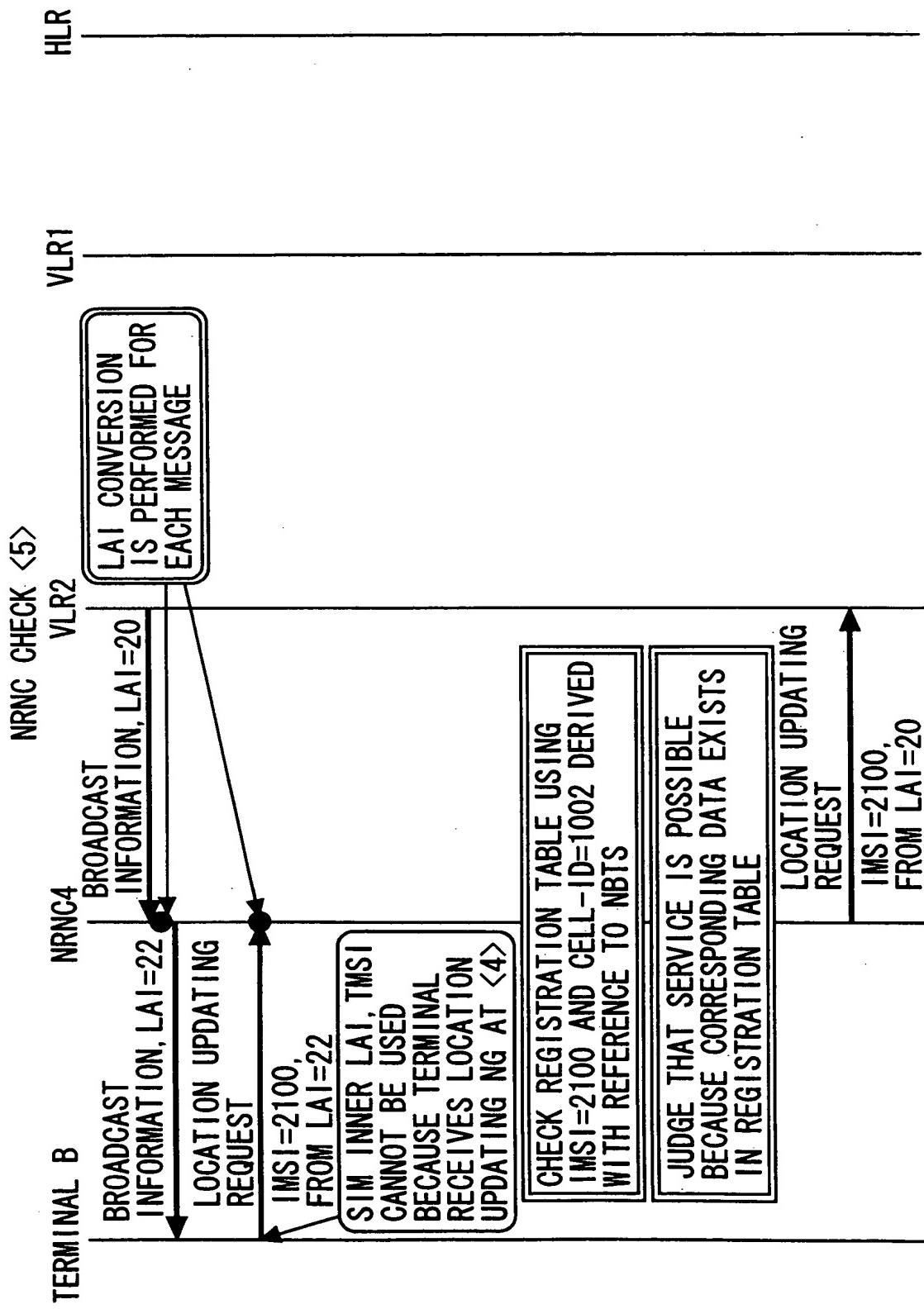
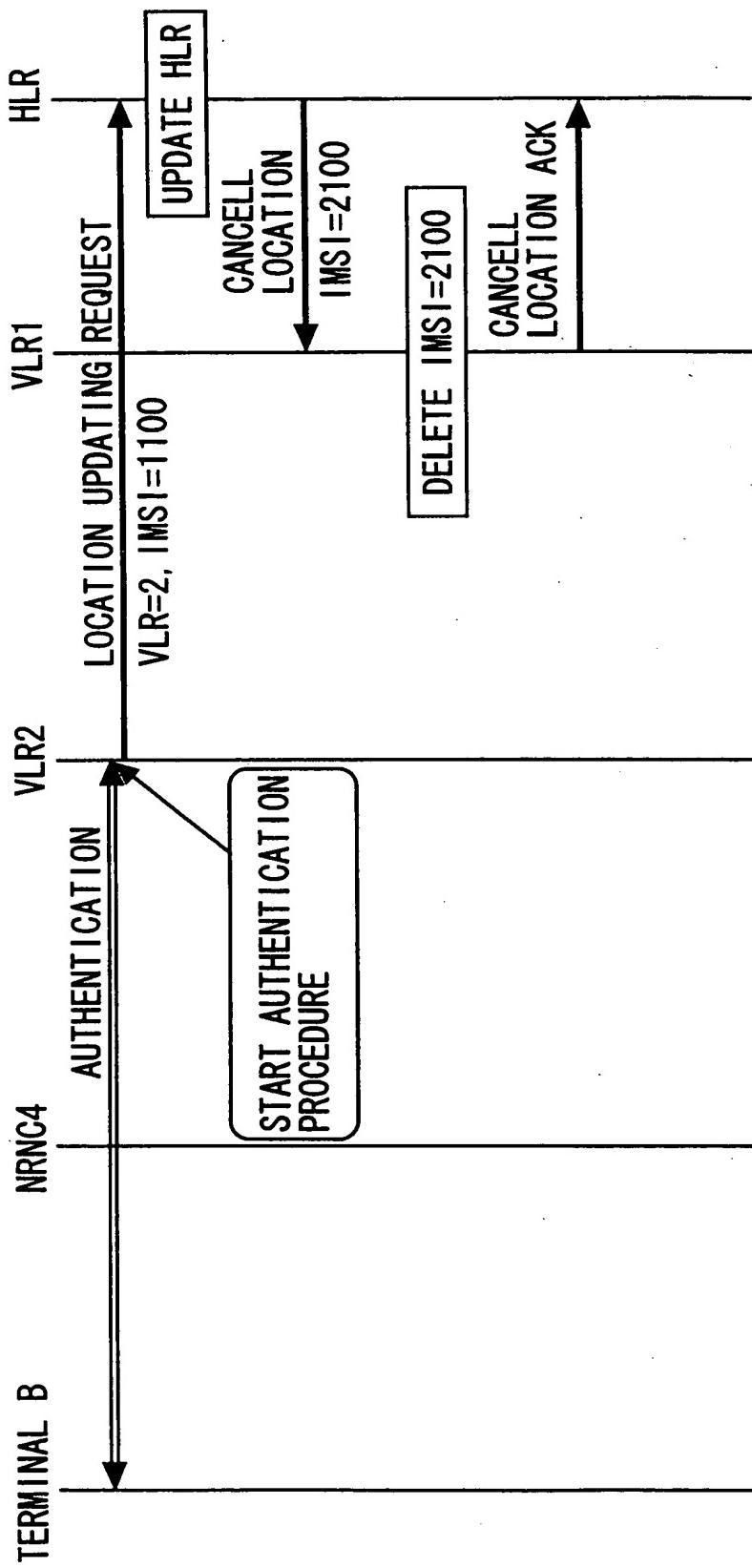


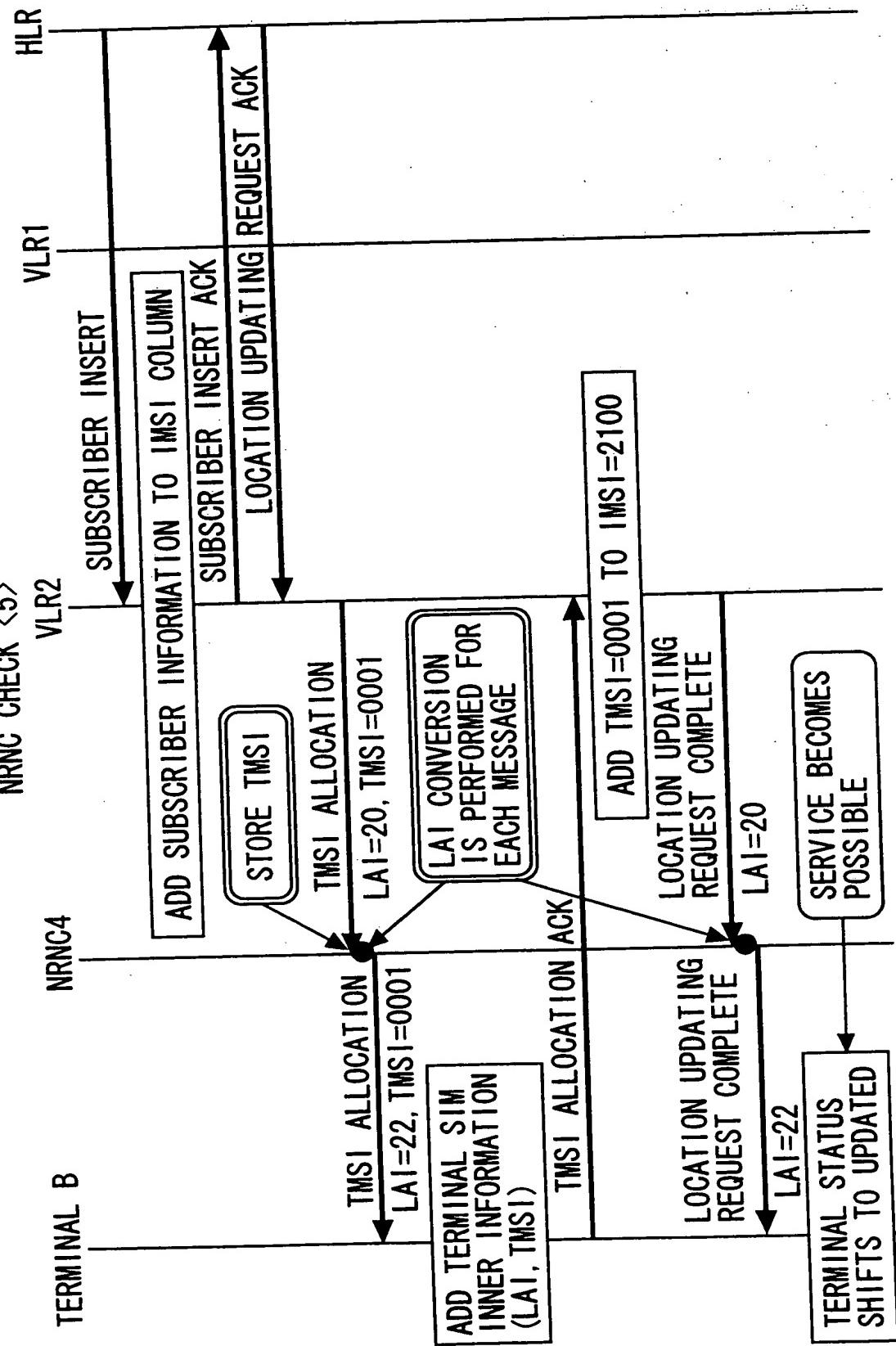
FIG. 36B

NRNC CHECK <5>

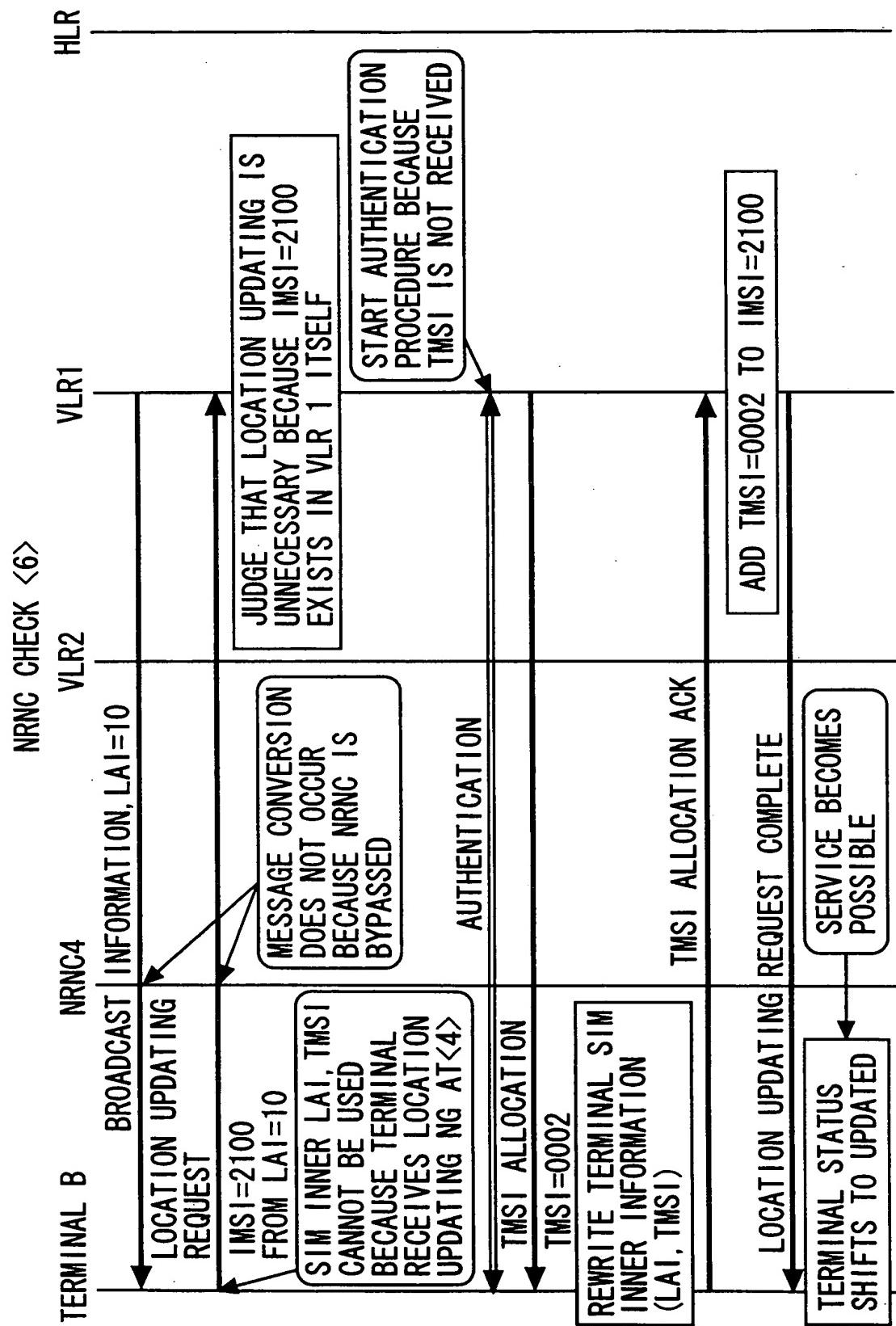


*FIG. 37*

NRNC CHECK <5>



*F/G. 38*



*FIG. 39*  
PRIOR ART

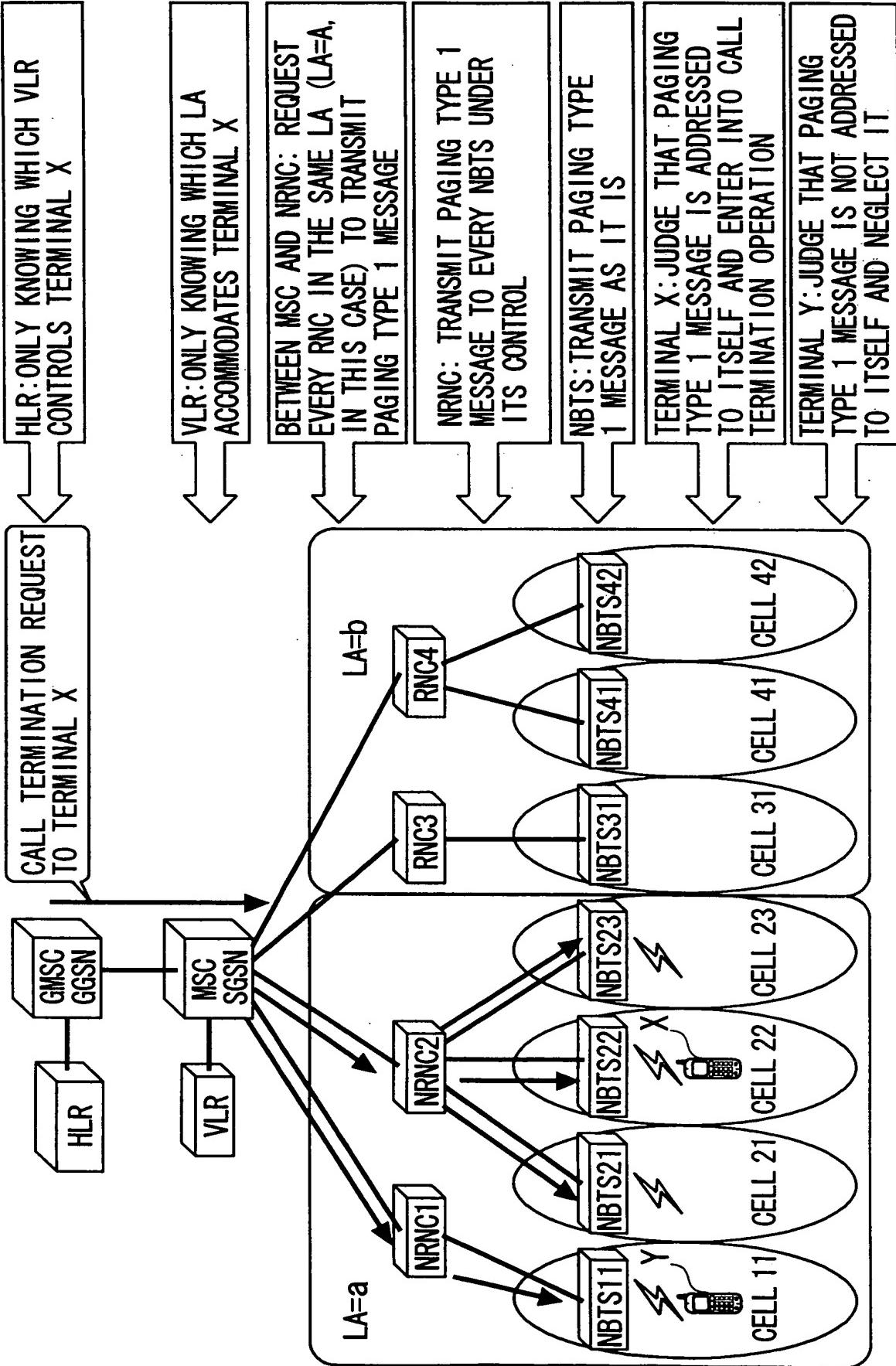
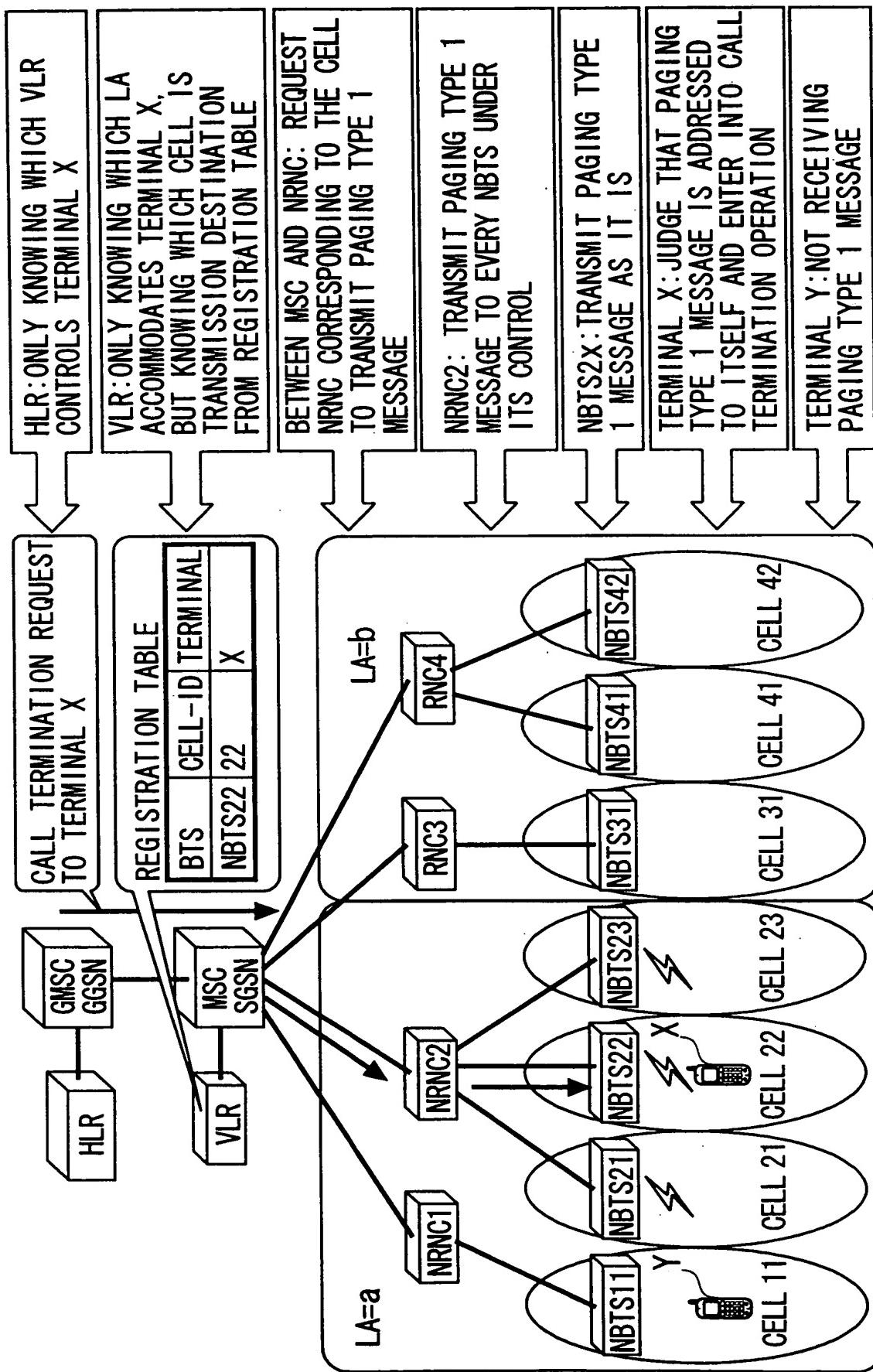
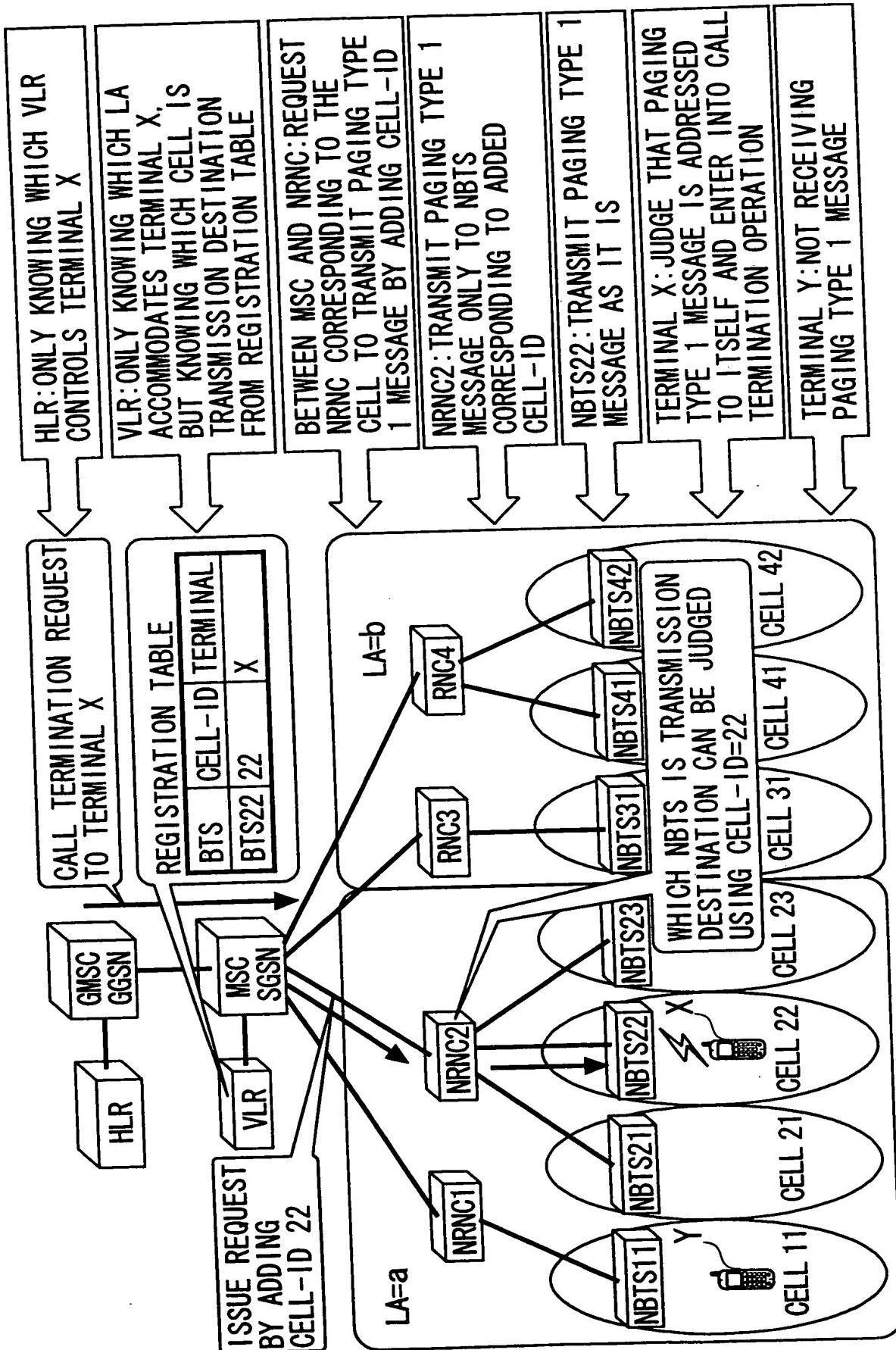


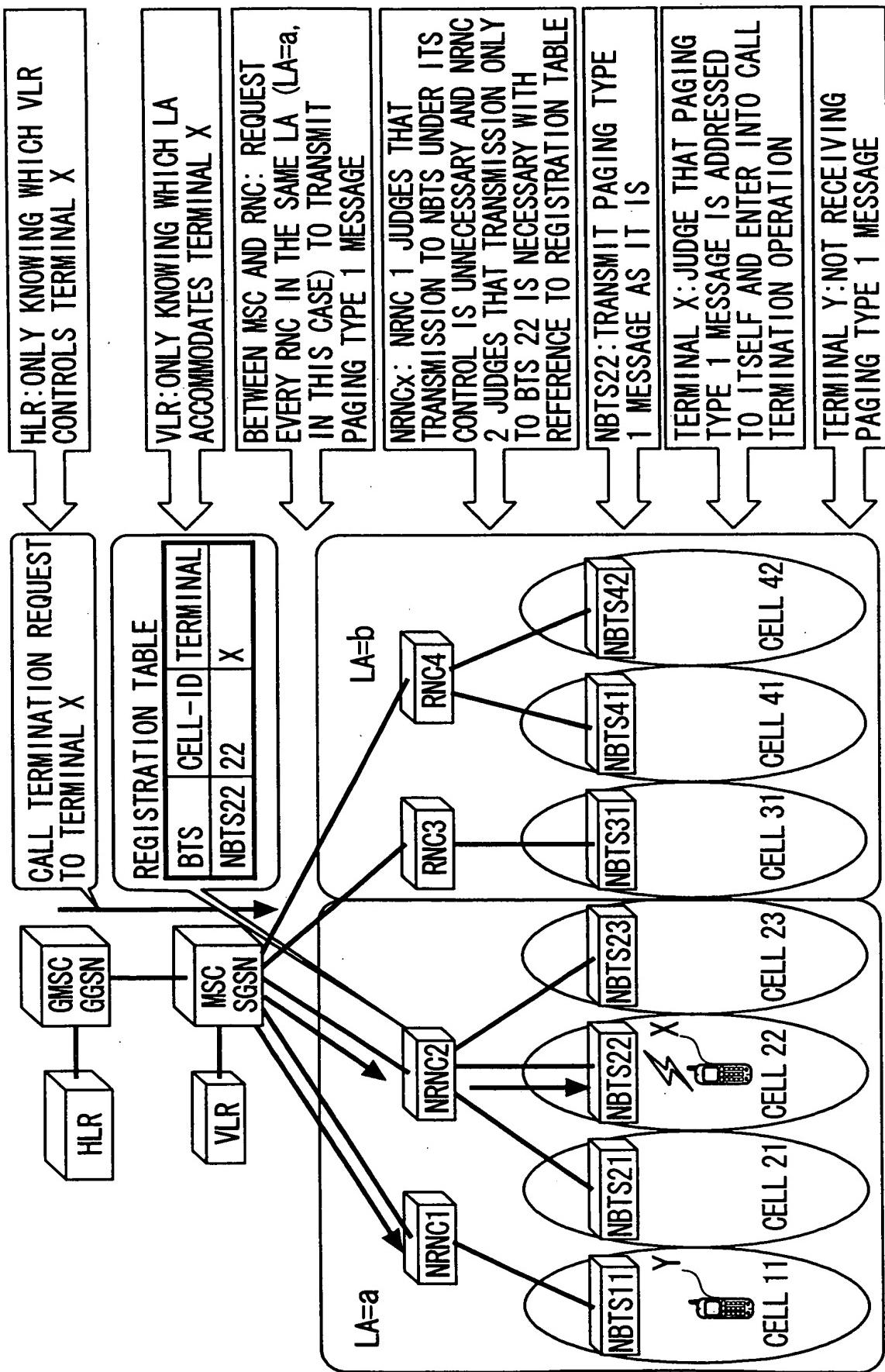
FIG. 40



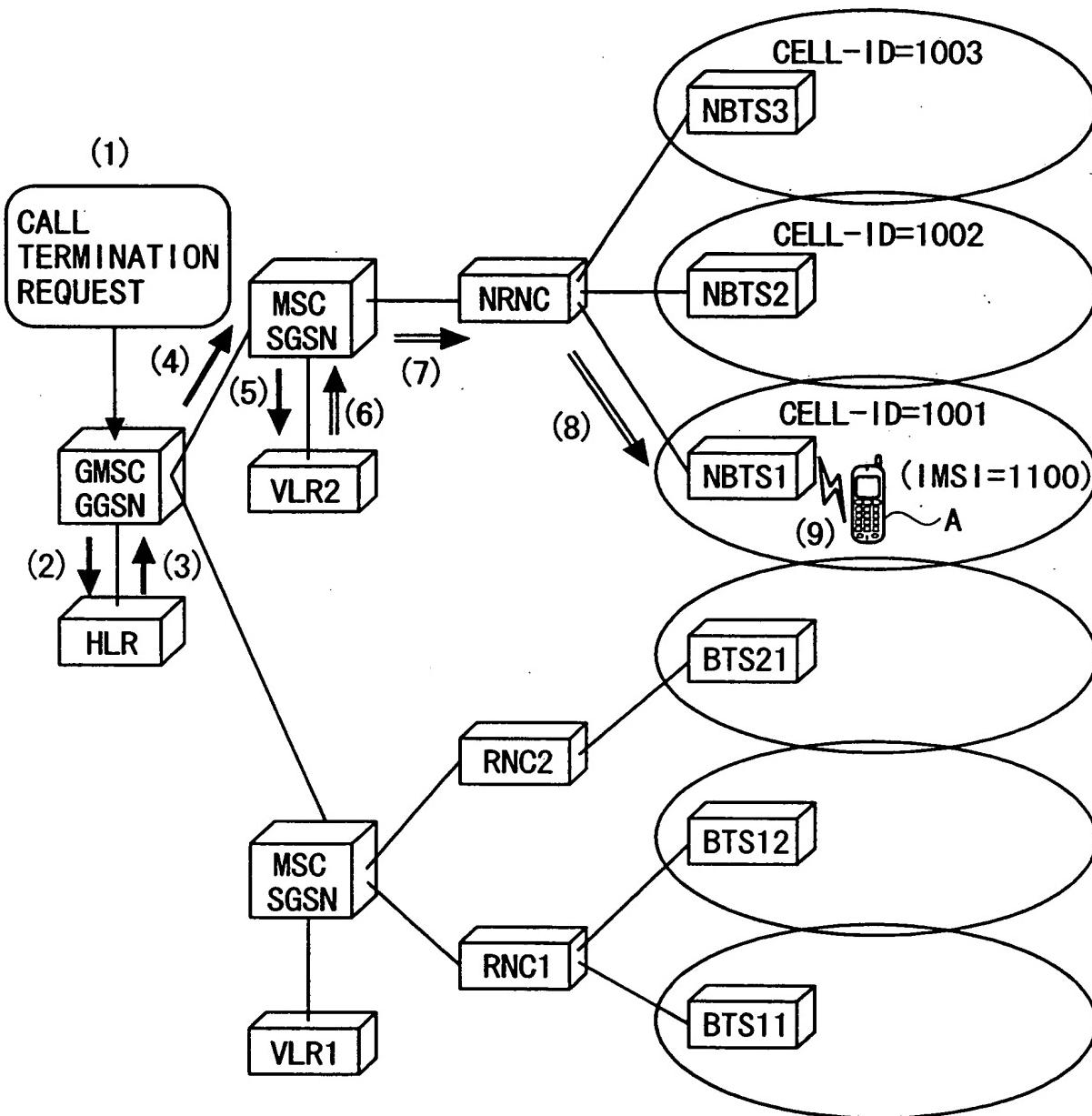
*FIG. 41*



*FIG. 42*



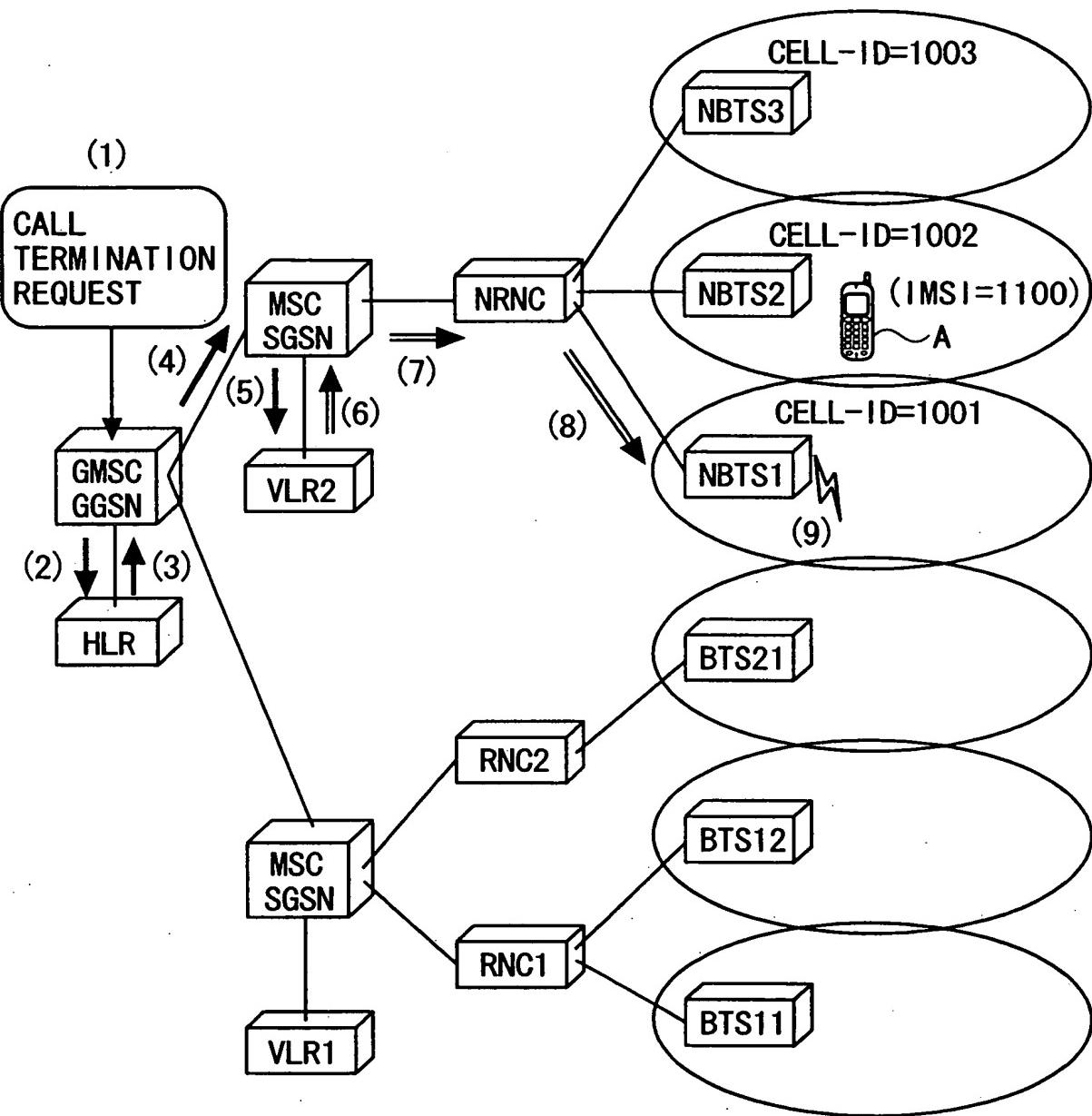
*FIG. 43A*



*FIG. 43B*

BTS	CELL-ID	IMSI		EXISTING IN VLR 2
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)	
NBTS2	1002	2100		

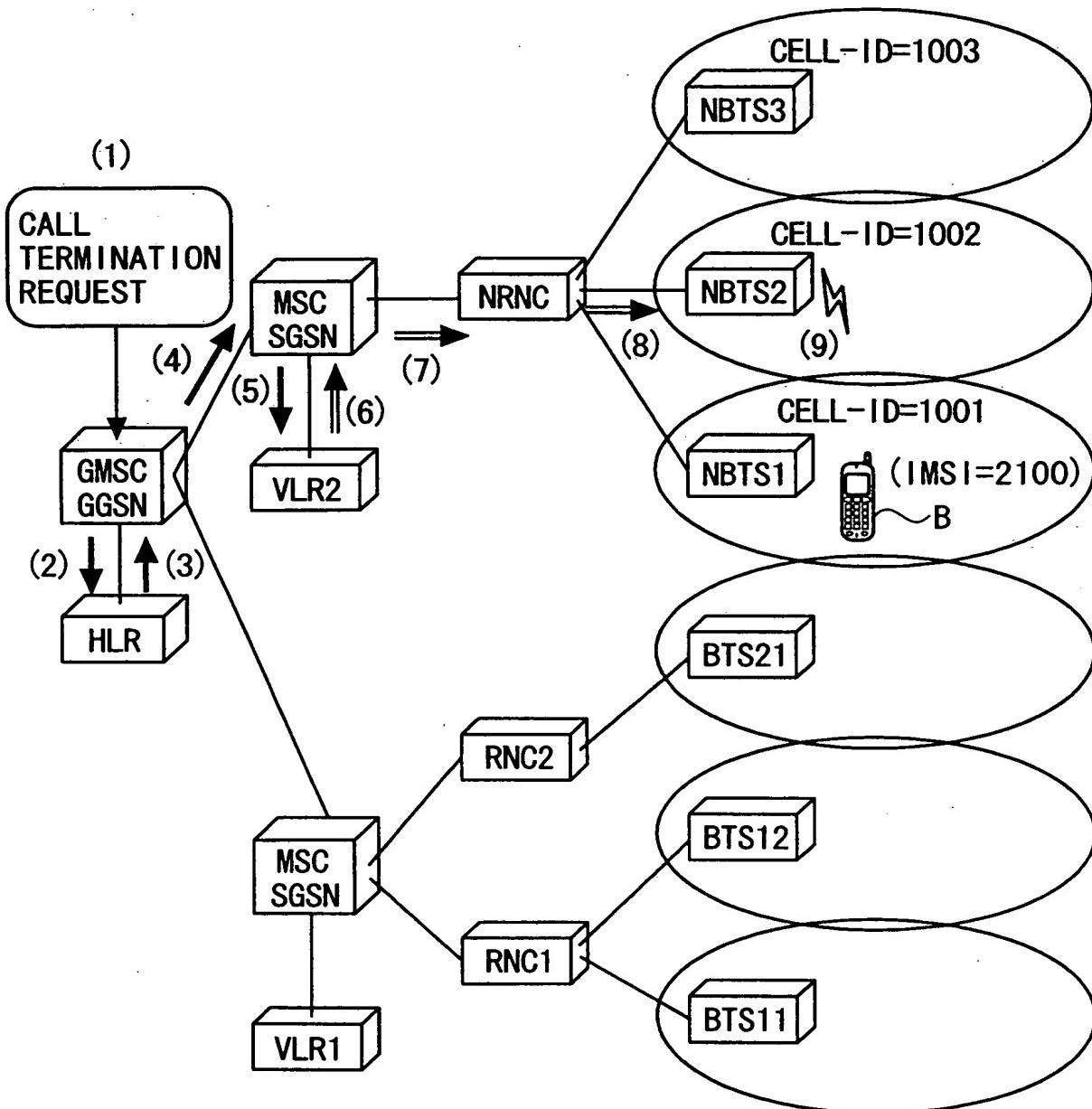
*FIG. 44A*



*FIG. 44B*

BTS	CELL-ID	IMSI	
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)
NBTS2	1002	2100	EXISTING IN VLR 2

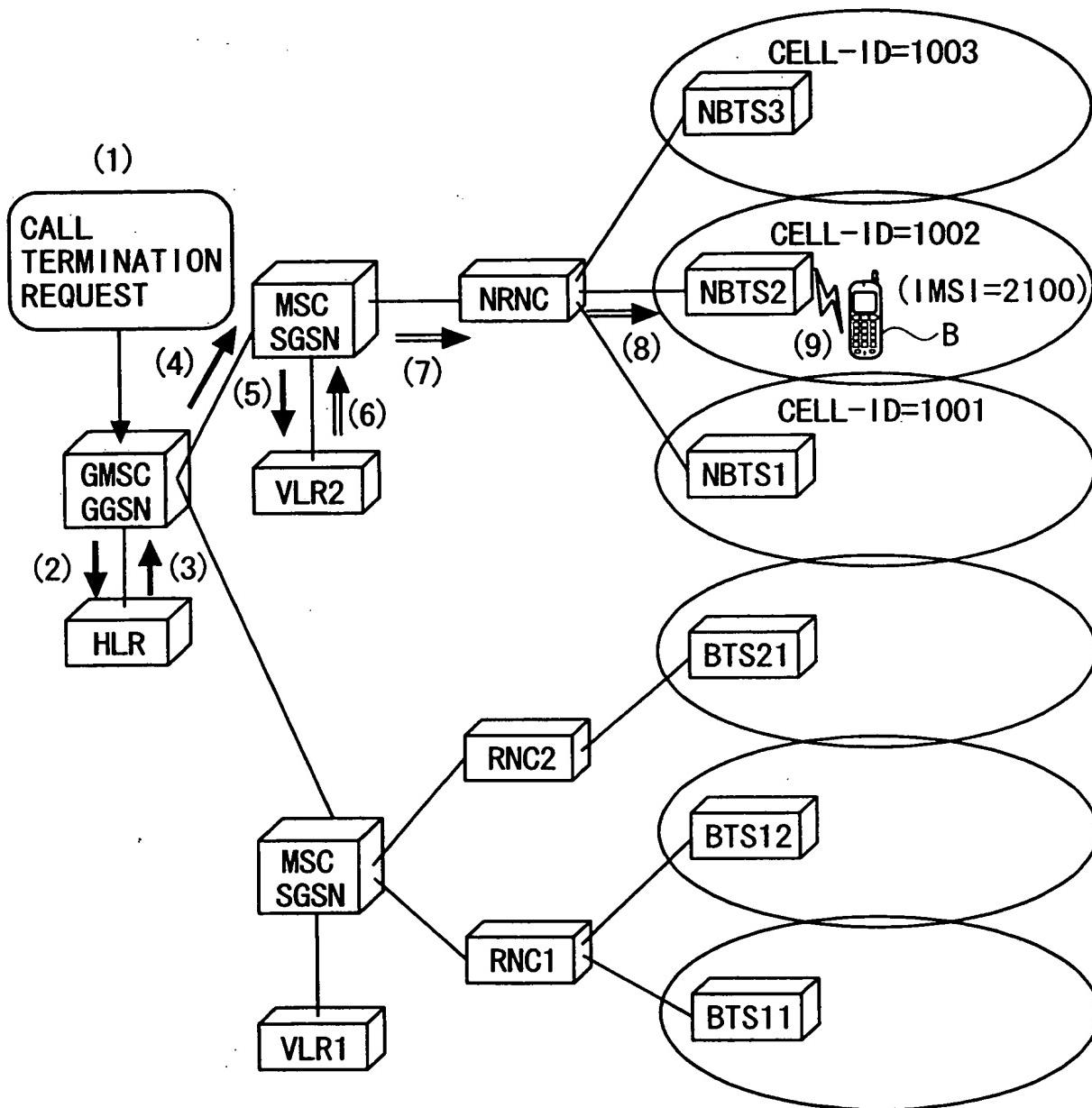
*FIG. 45A*



*FIG. 45B*

BTS	CELL-ID	IMSI	
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)
NBTS2	1002	2100	EXISTING IN VLR 2

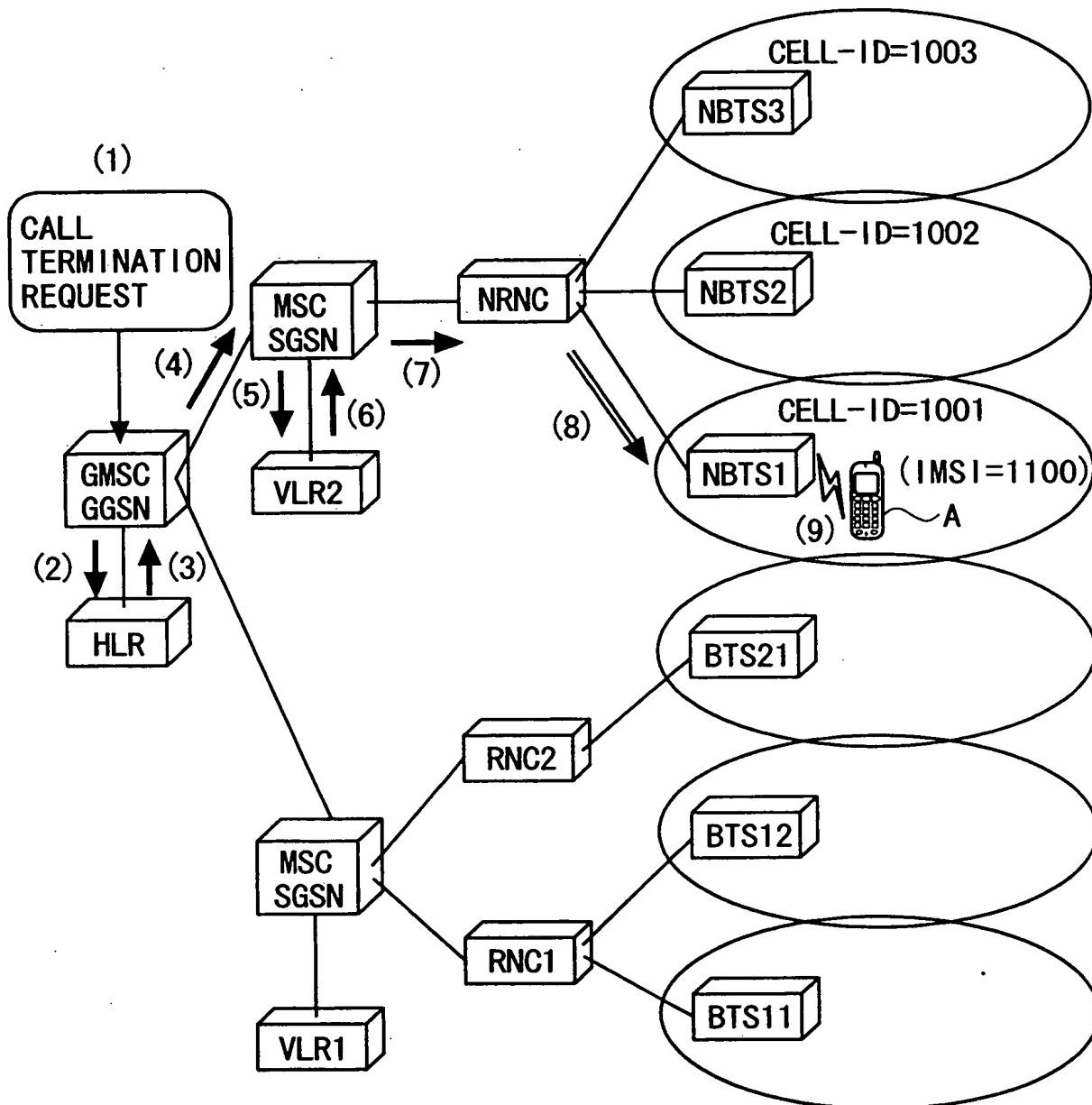
*FIG. 46A*



*FIG. 46B*

BTS	CELL-ID	IMSI	
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)
NBTS2	1002	2100	EXISTING IN VLR 2

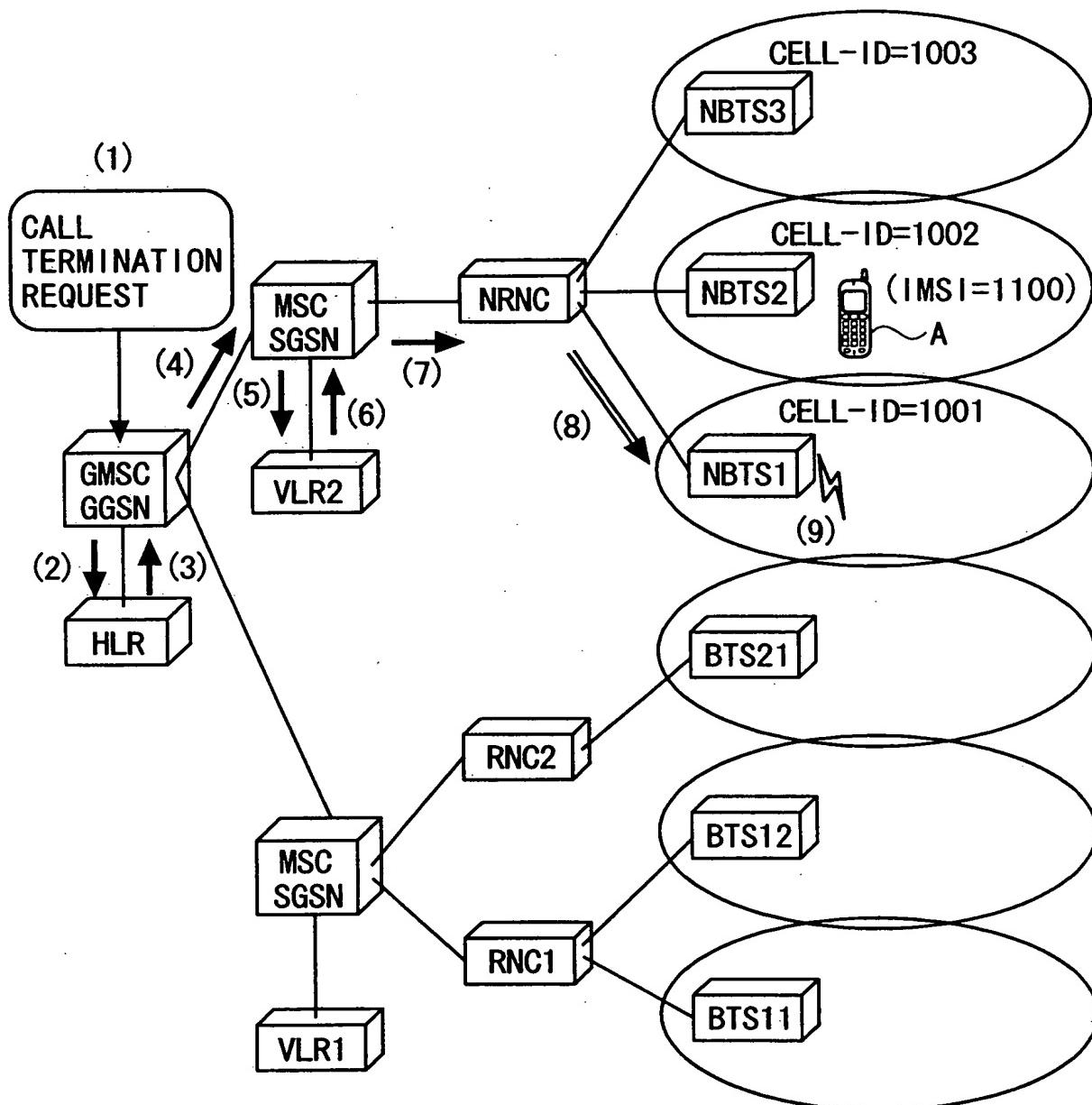
*FIG. 47A*



*FIG. 47B*

BTS	CELL-ID	IMSI		EXISTING IN NRNC
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)	
NBTS2	1002	2100		

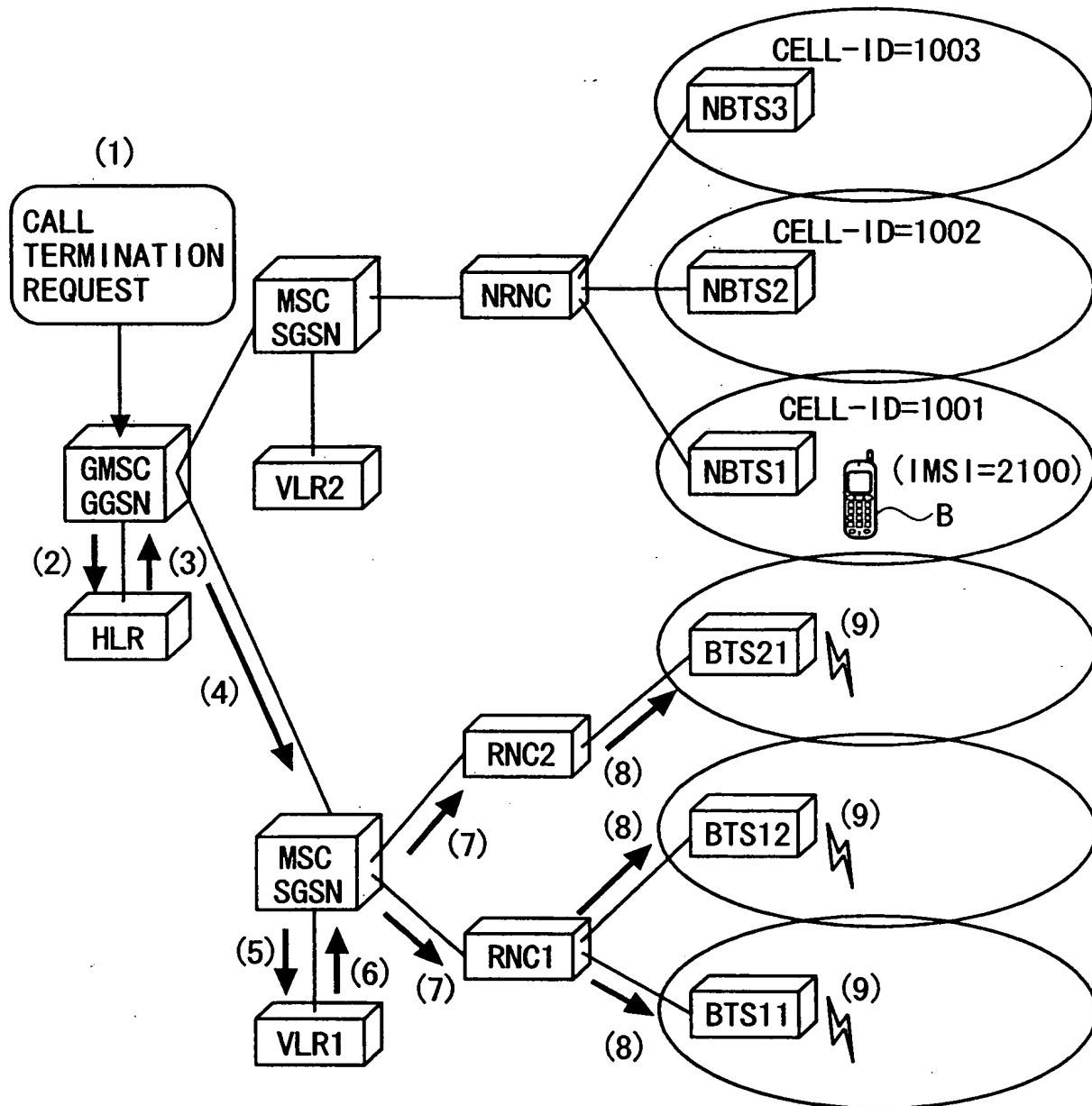
*FIG. 48A*



*FIG. 48B*

BTS	CELL-ID	IMSI	
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)
NBTS2	1002	2100	EXISTING IN NRNC

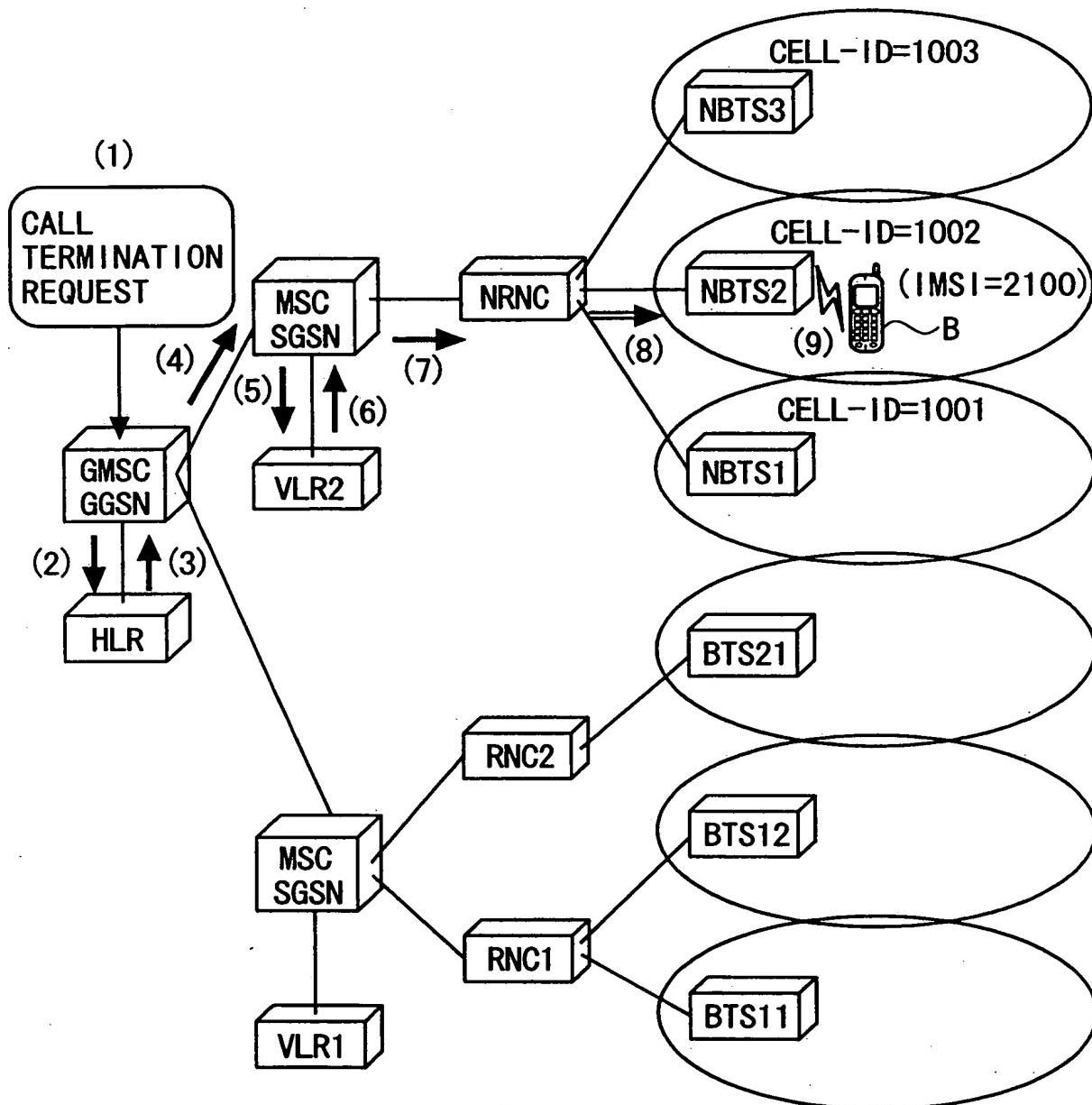
*FIG. 49A*



*FIG. 49B*

BTS	CELL-ID	IMSI		EXISTING IN NRNC
NBTS1	1001	1100	(MULTIPLE IS POSSIBLE)	
NBTS2	1002	2100		

*FIG. 50A*



*FIG. 50B*

BTS	CELL-ID	IMSI	(MULTIPLE IS POSSIBLE)	EXISTING IN NRNC
NBTS1	1001	1100		
NBTS2	1002	2100		

FIG. 51

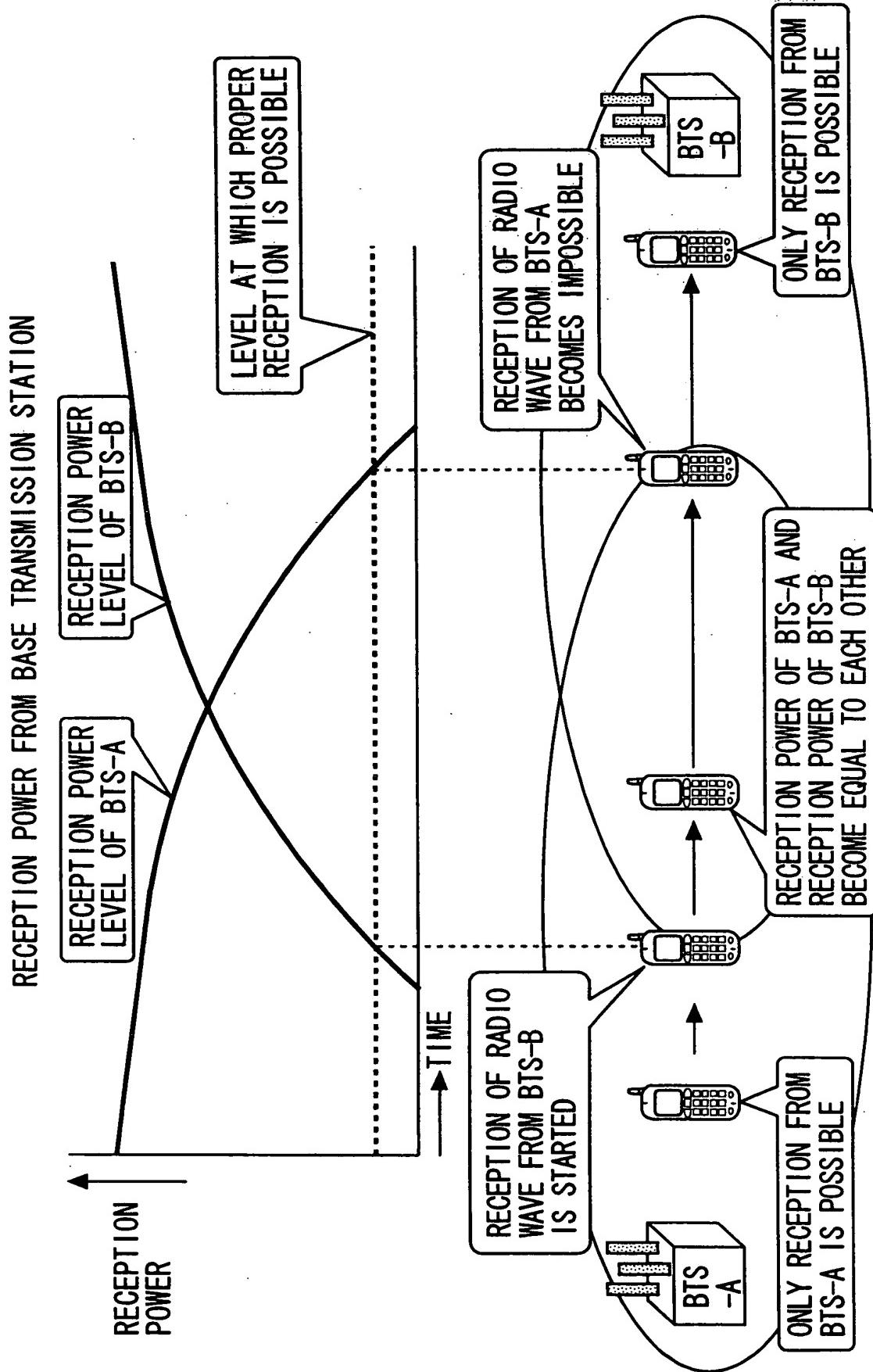


FIG. 52

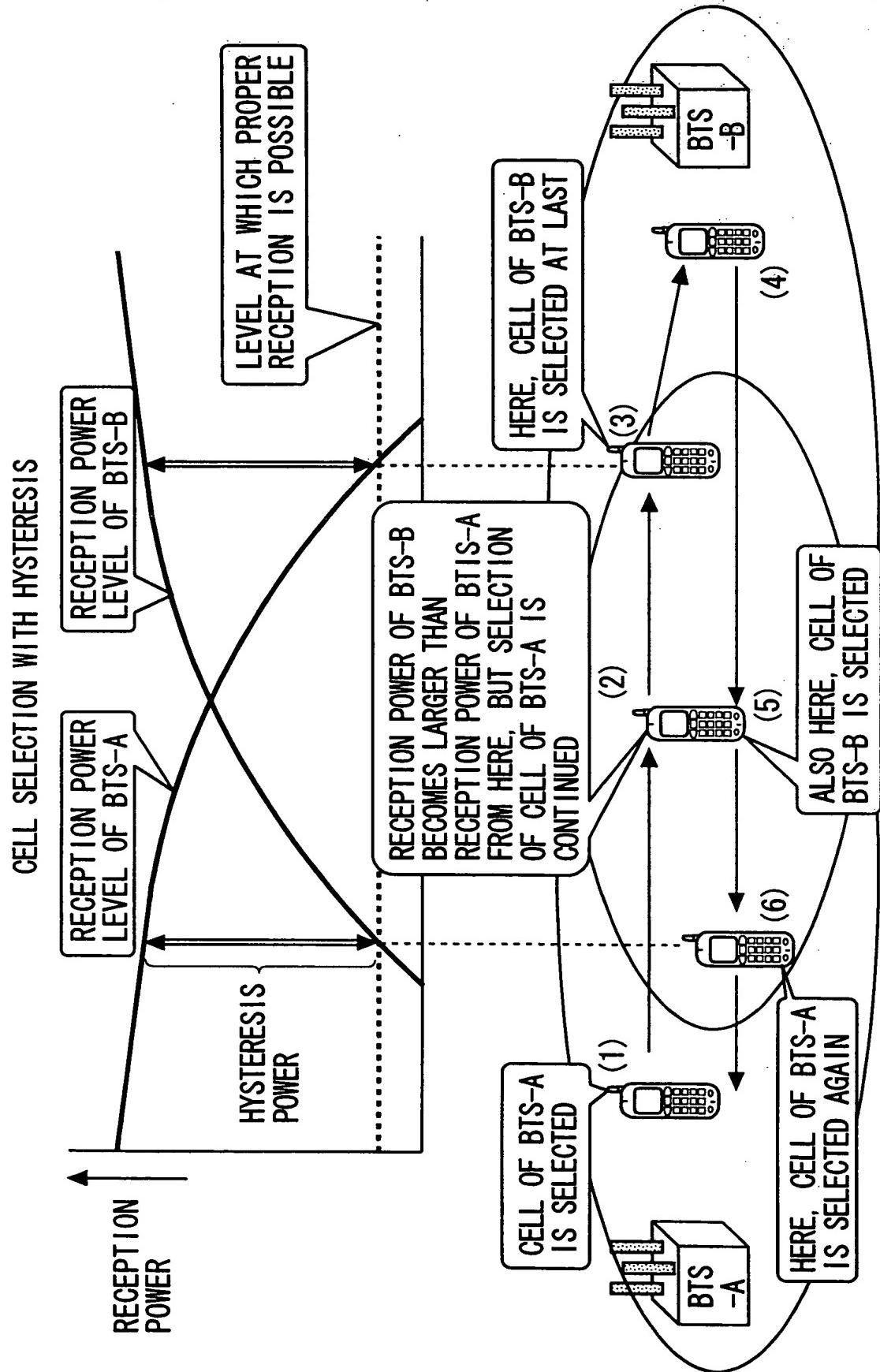


FIG. 53

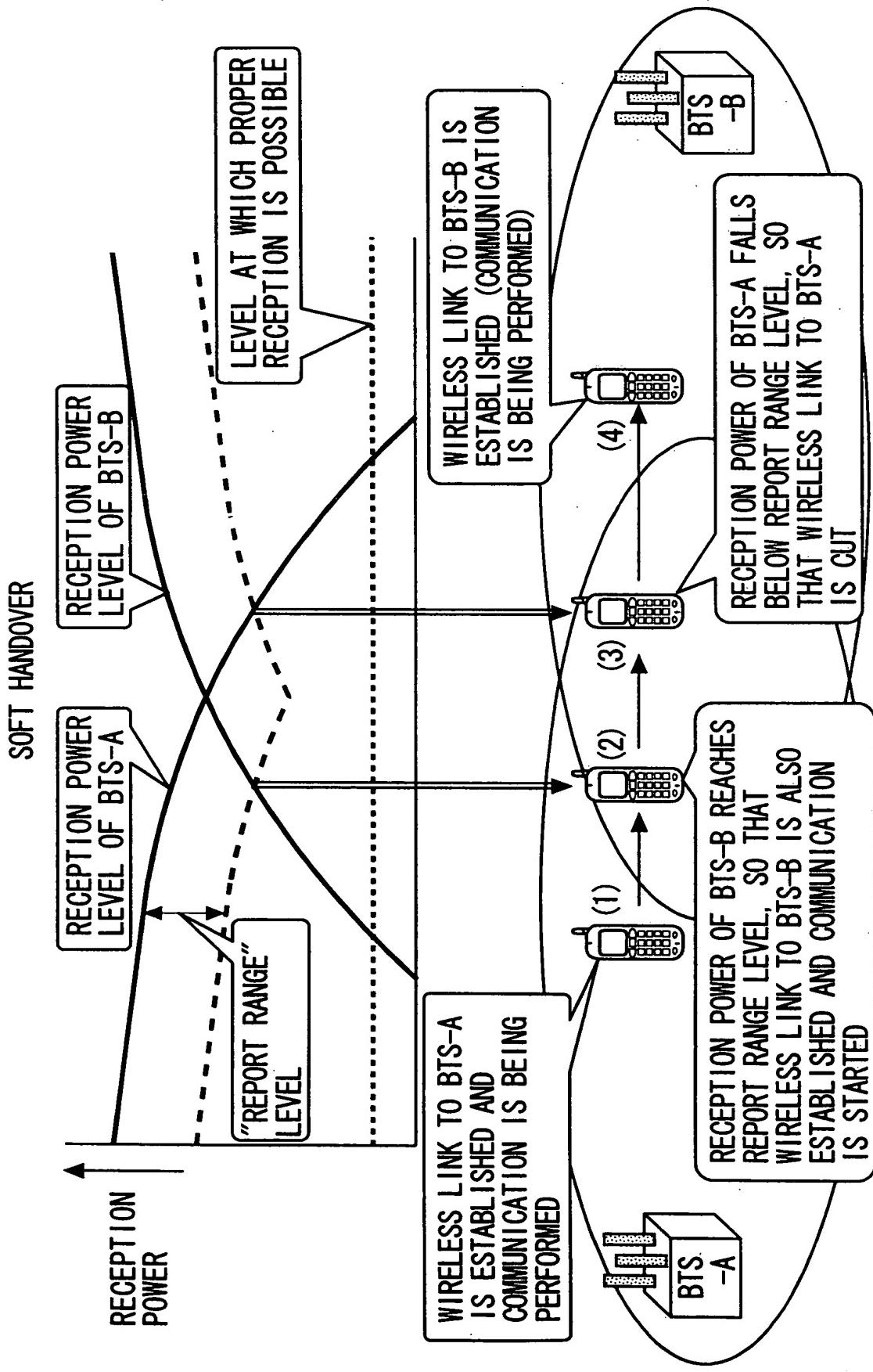
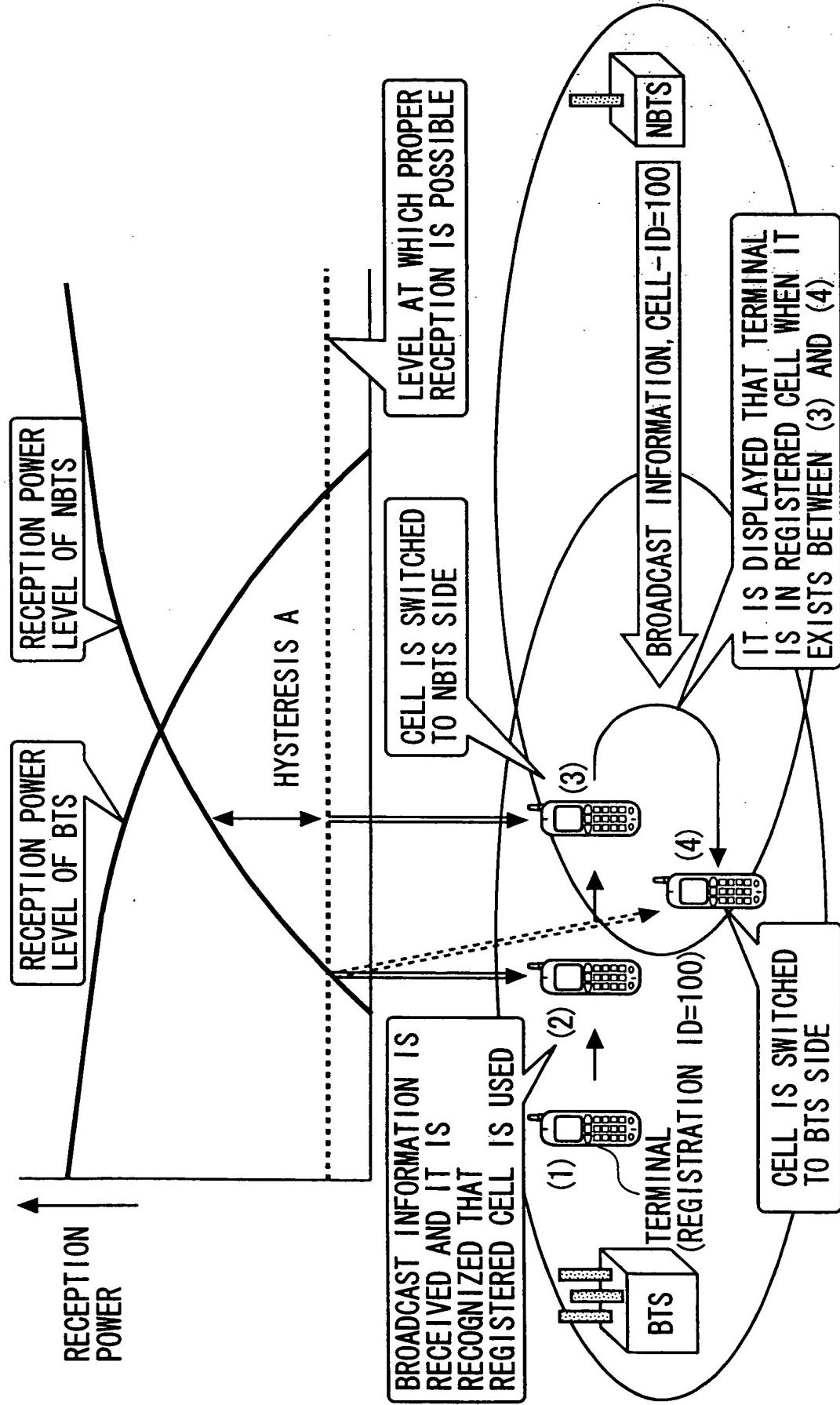
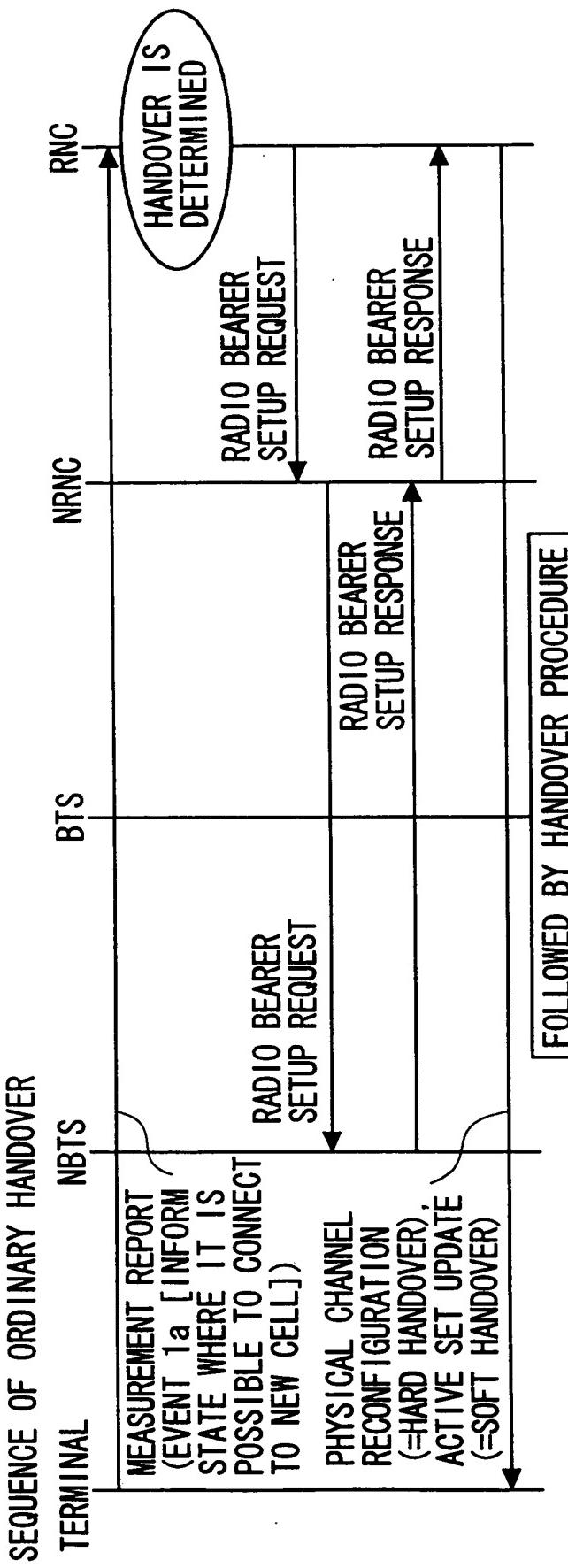


FIG. 54

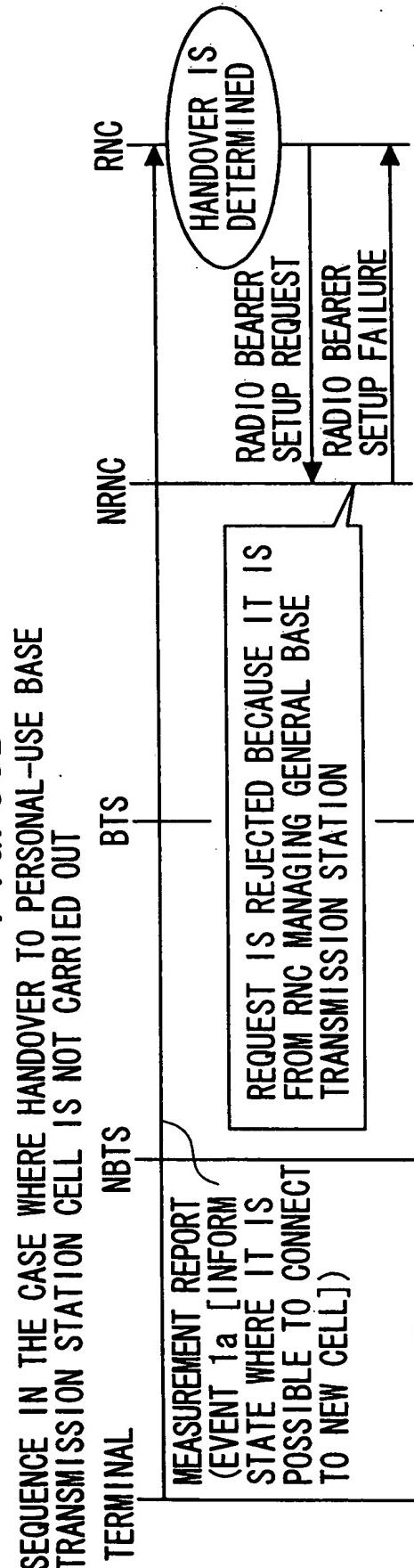
PERSONAL-USE BASE TRANSMISSION STATION CELL SELECTION



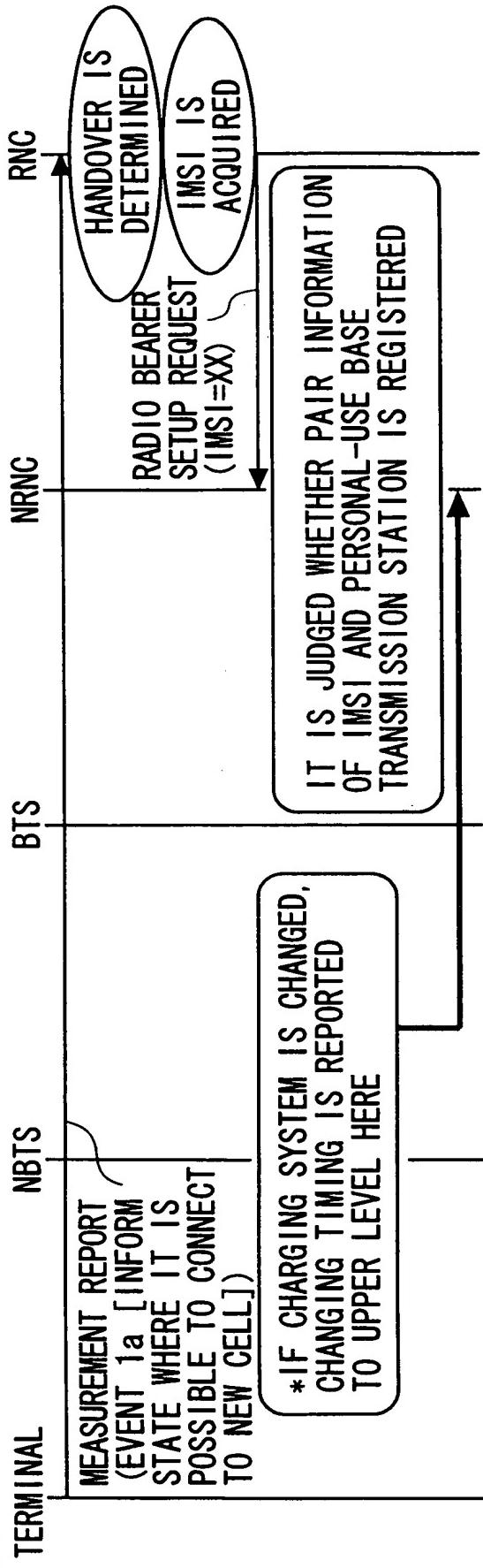
*F/G. 55A*



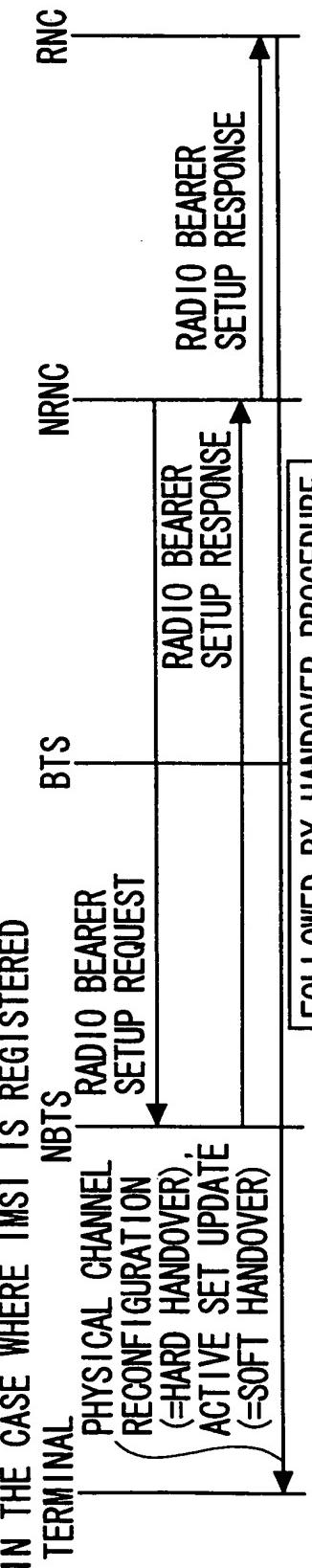
*F/G. 55B*



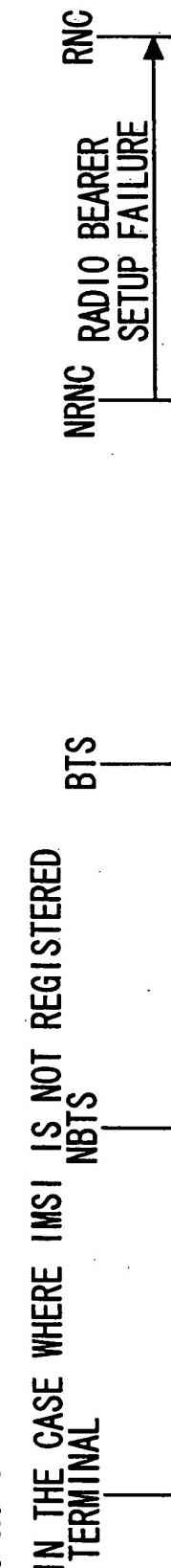
*F/G. 56A*



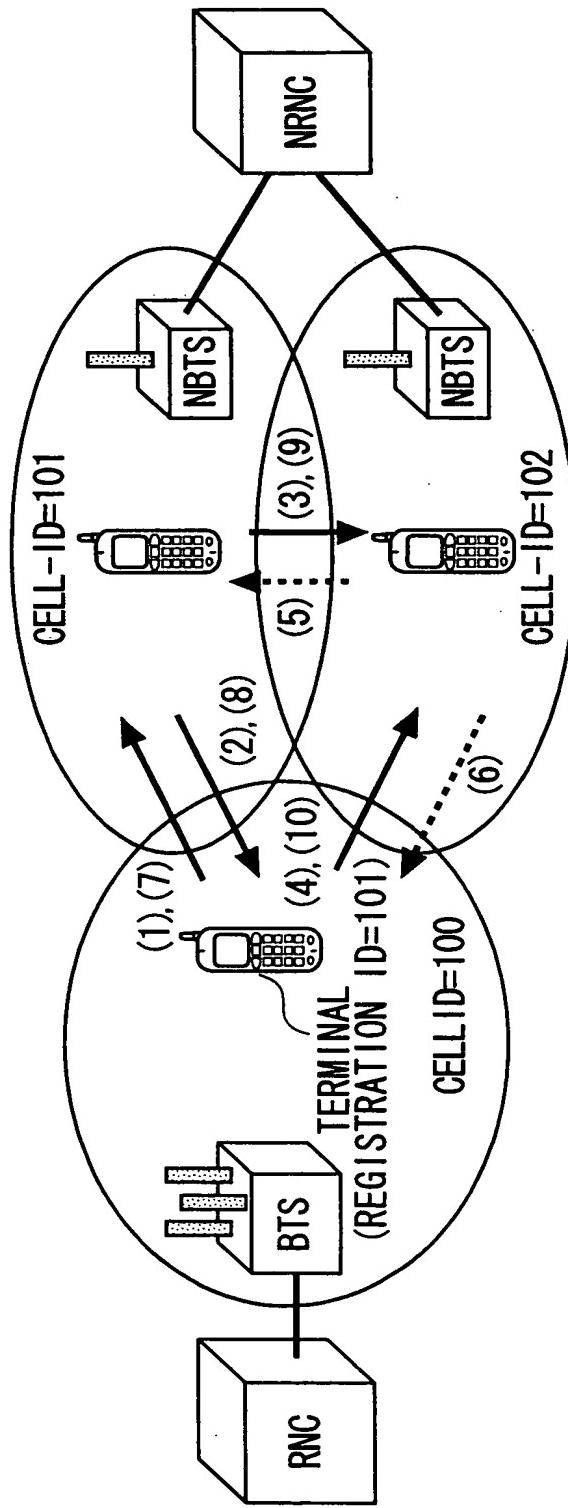
*F/G. 56B*



*F/G. 56C*

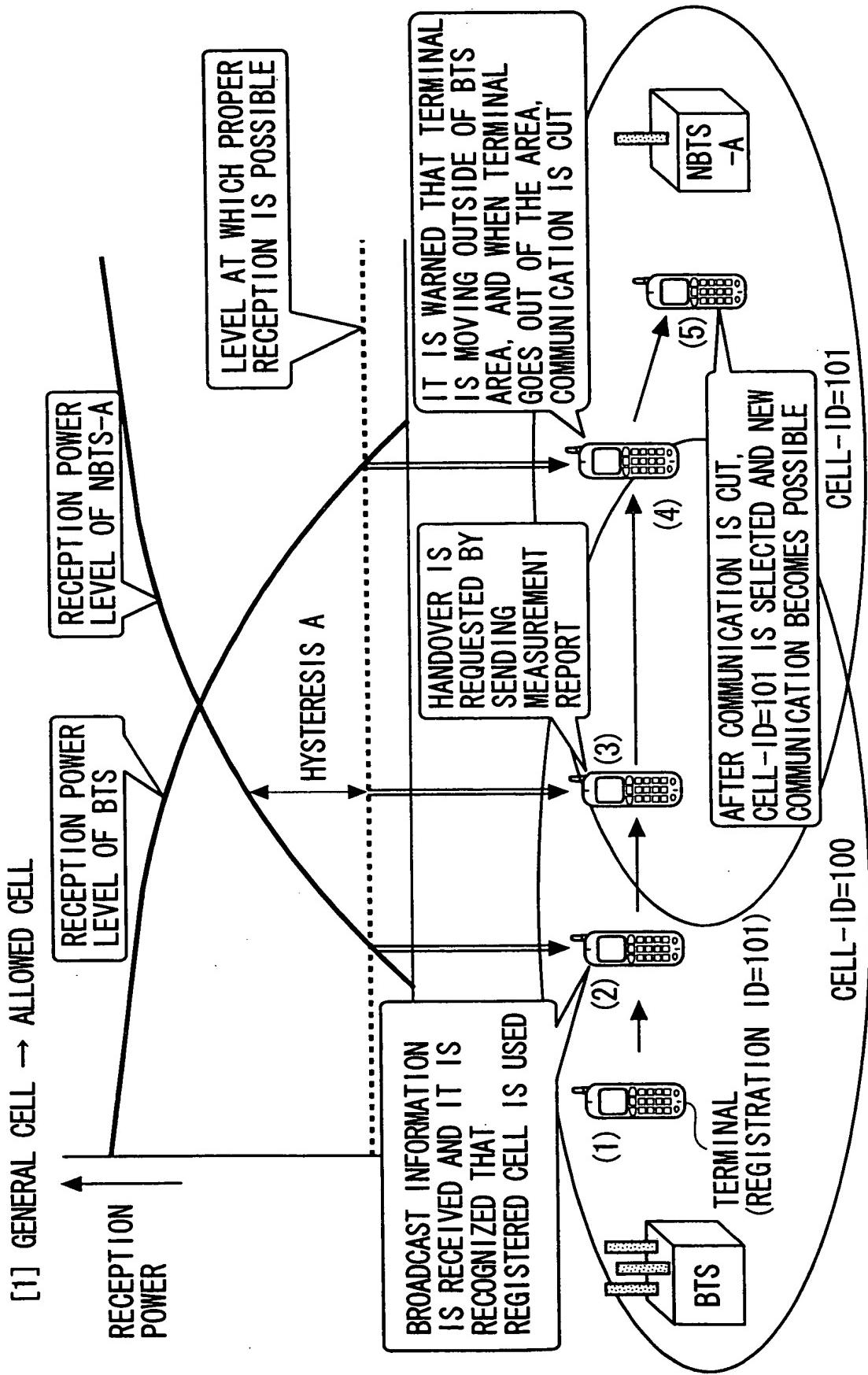


*FIG. 57*



- OPERATION AT THE TIME OF MOVEMENT BETWEEN CELLS (DURING COMMUNICATION)
- (1) FROM GENERAL CELL (GENERAL BASE TRANSMISSION STATION CELL) TO ALLOWED CELL (CELL OF PERSONAL-USE BASE TRANSMISSION STATION REGISTERED IN TERMINAL)
- (2) FROM ALLOWED CELL TO GENERAL CELL
- (3) FROM ALLOWED CELL TO PROHIBITED CELL (CELL OF PERSONAL-USE BASE TRANSMISSION STATION NOT REGISTERED IN TERMINAL)
- (4) FROM GENERAL CELL TO PROHIBITED CELL → IMPOSSIBLE WHEN COMMUNICATION IS BEING PERFORMED
- (5) FROM PROHIBITED CELL TO ALLOWED CELL → IMPOSSIBLE WHEN COMMUNICATION IS BEING PERFORMED
- (6) FROM PROHIBITED CELL TO GENERAL CELL → IMPOSSIBLE WHEN COMMUNICATION IS BEING PERFORMED
- (7) FROM GENERAL CELL TO ALLOWED CELL, HANDOVER JUDGMENT PROCESSING IS PERFORMED
- (8) FROM ALLOWED CELL TO GENERAL CELL, HANDOVER JUDGMENT PROCESSING IS PERFORMED
- (9) FROM ALLOWED CELL TO PROHIBITED CELL, HANDOVER JUDGMENT PROCESSING IS PERFORMED
- (10) FROM GENERAL CELL TO PROHIBITED CELL, HANDOVER JUDGMENT PROCESSING IS PERFORMED

*FIG. 58*



*FIG. 59*

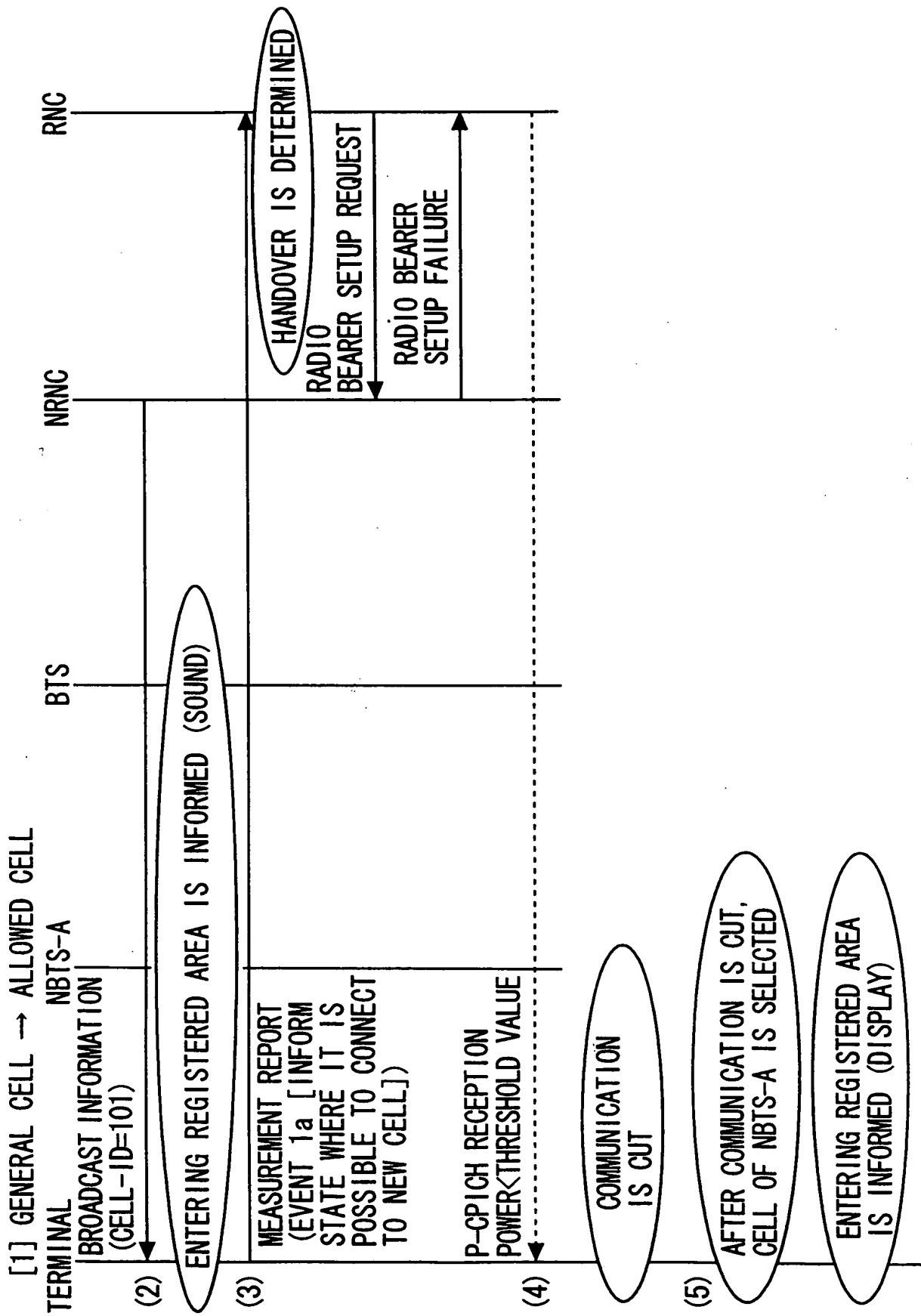


FIG. 60

[2] ALLOWED CELL → GENERAL CELL

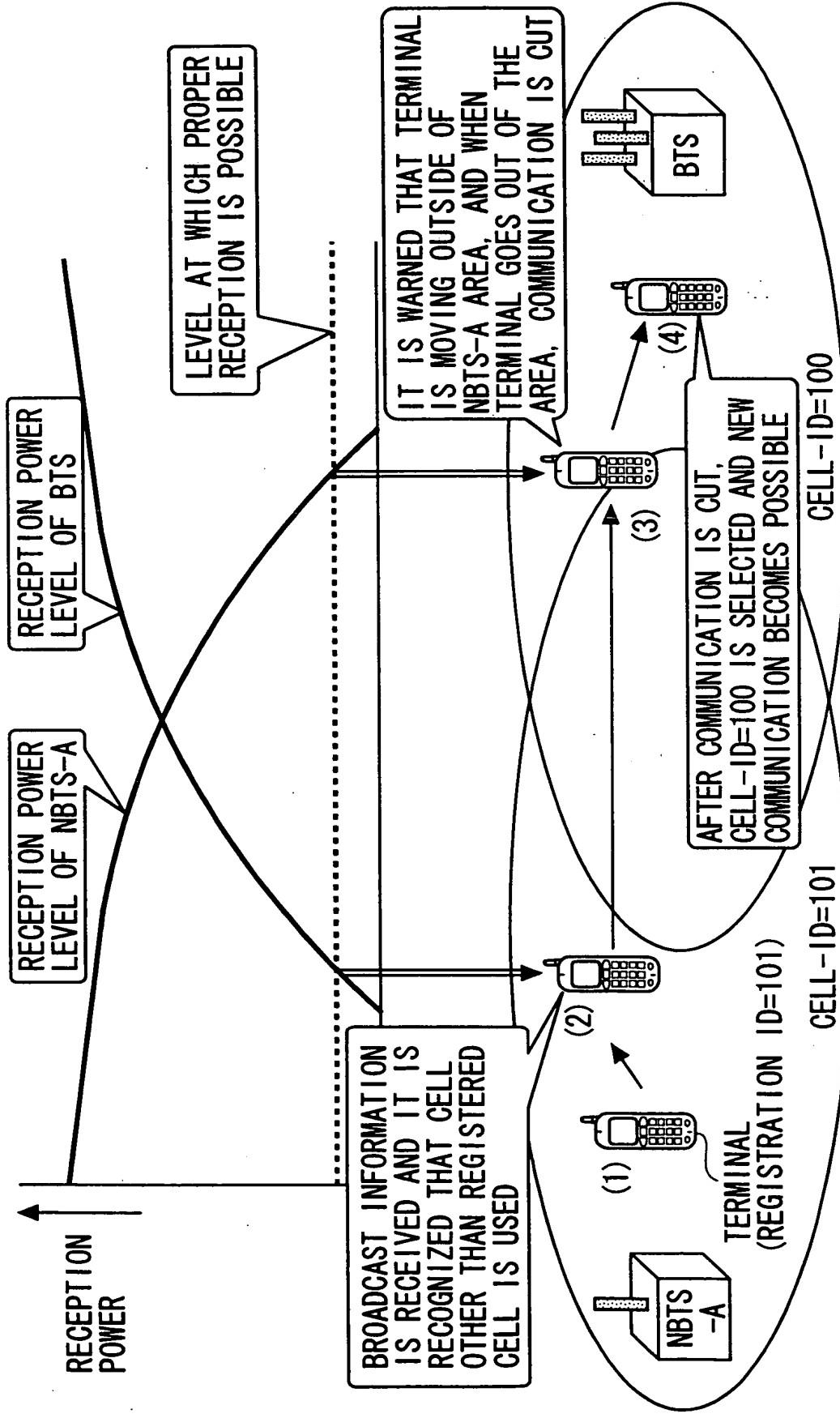
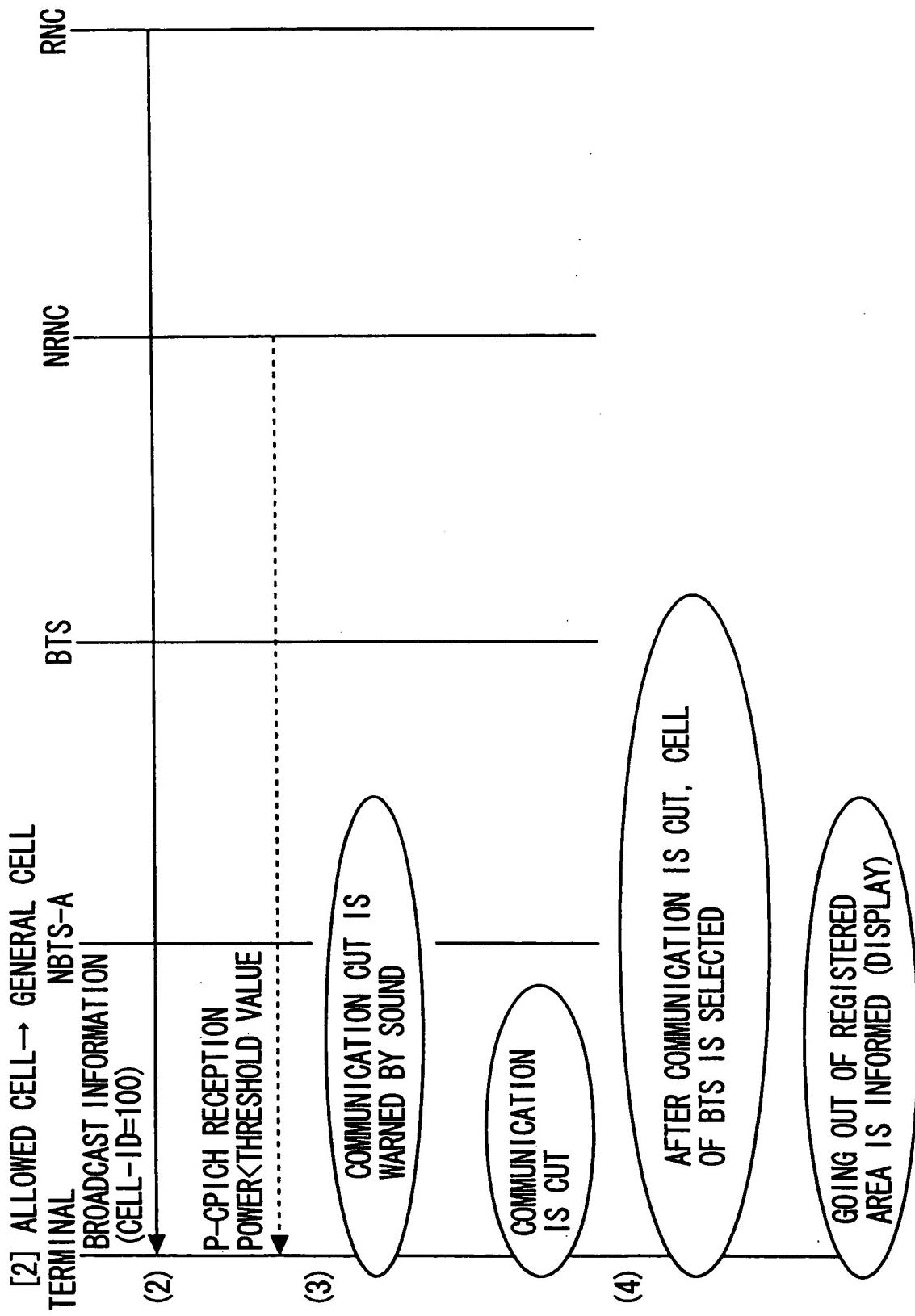


FIG. 61



*FIG. 62*

[3] ALLOWED CELL → PROHIBITED CELL

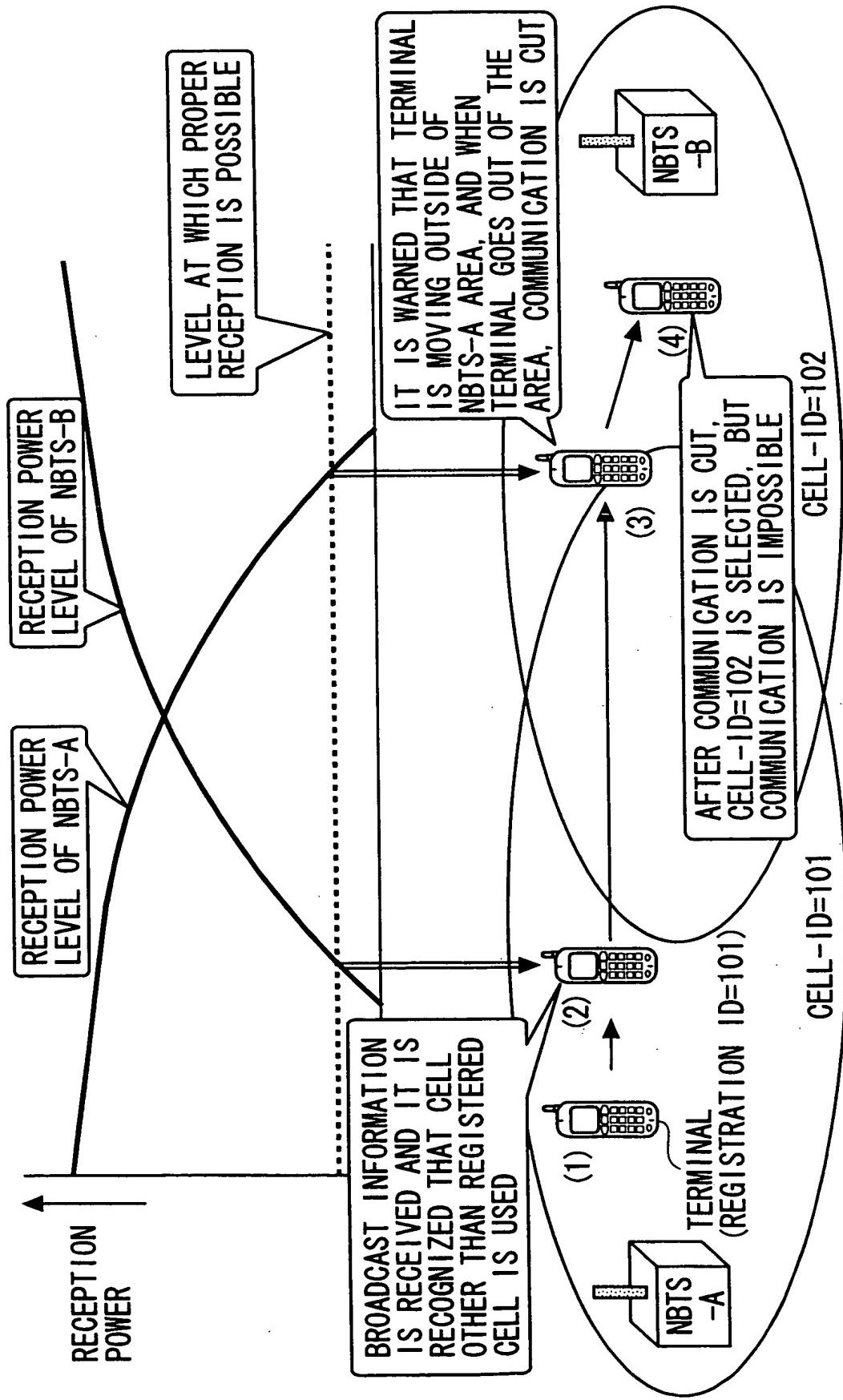
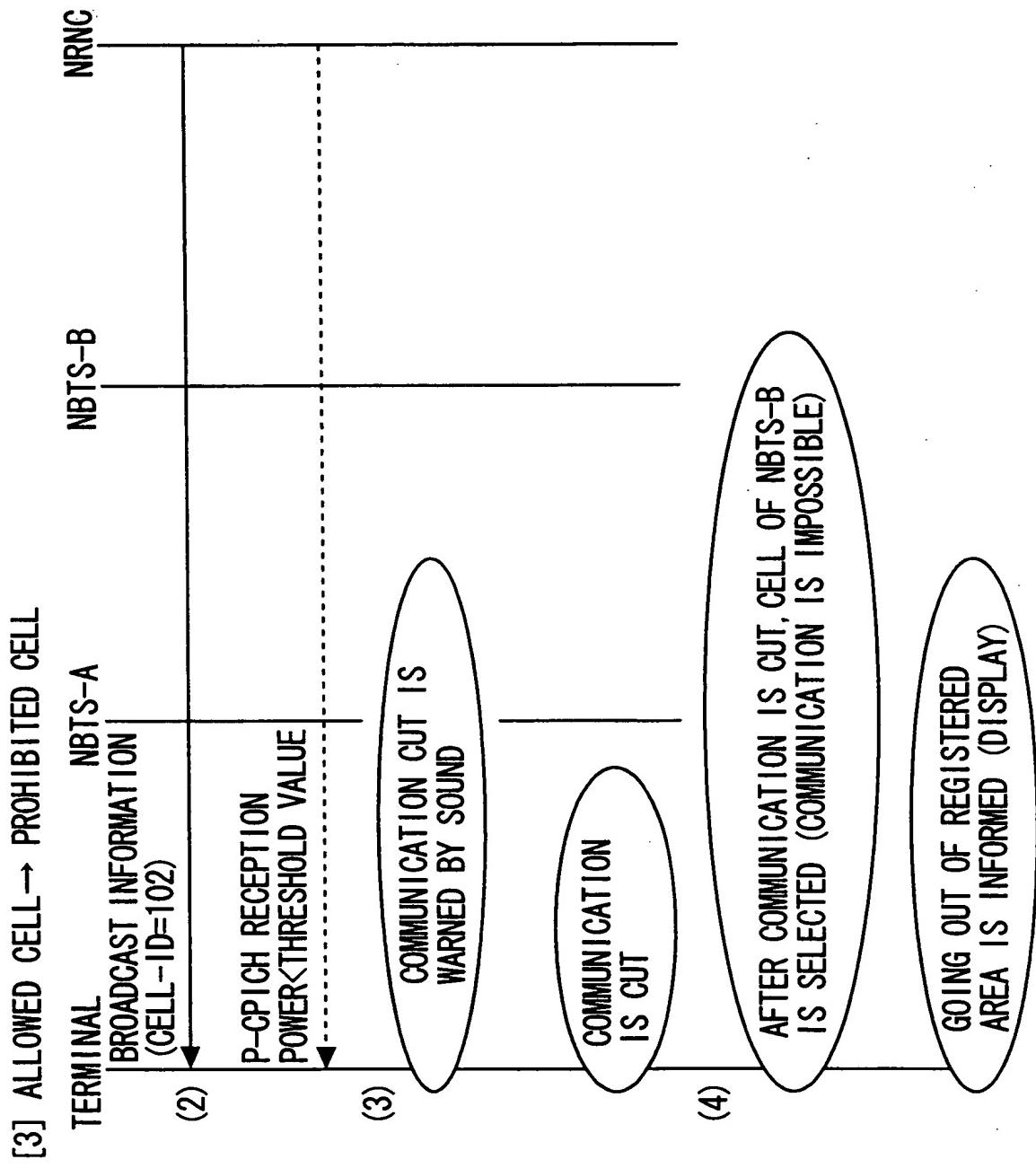
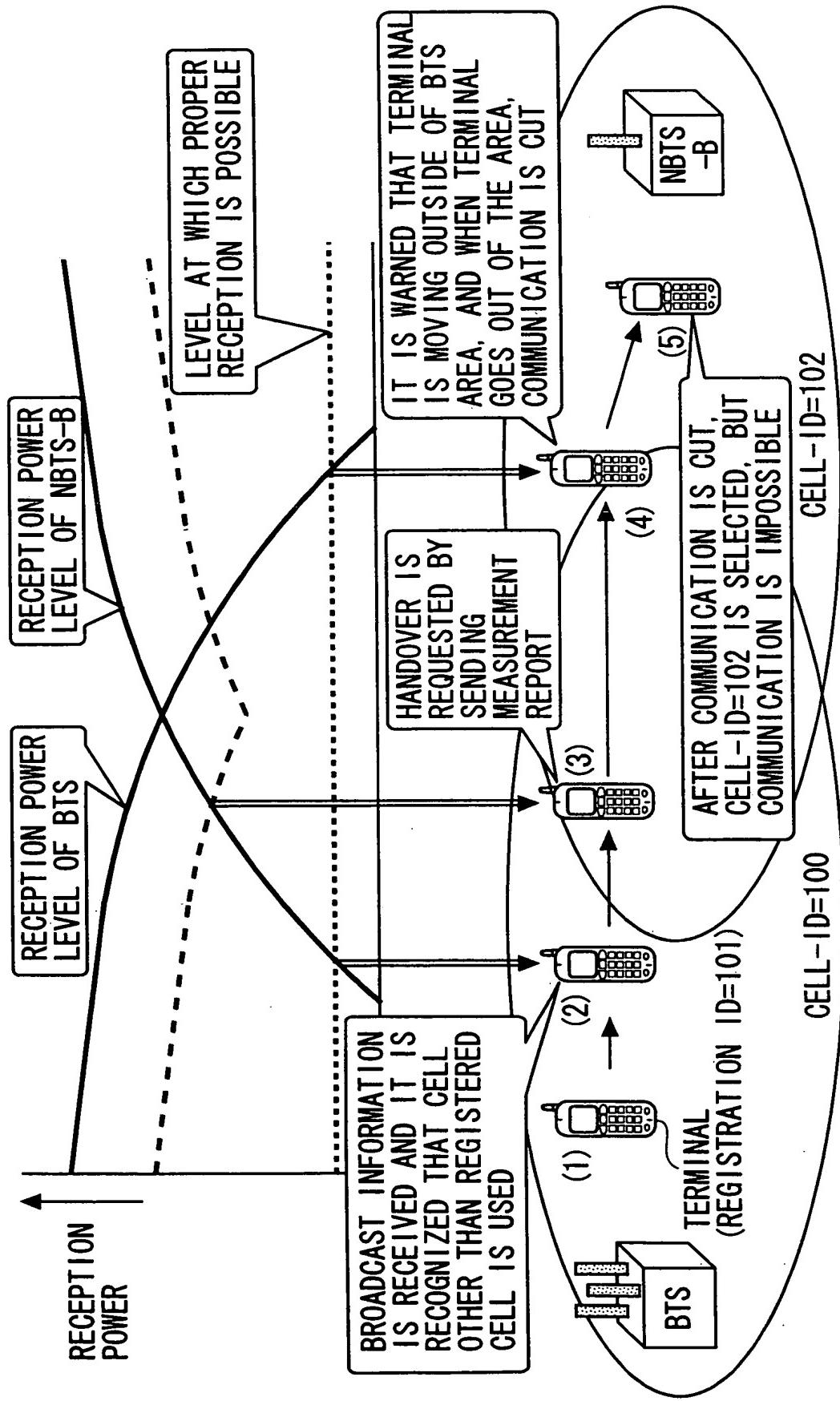


FIG. 63



[4] GENERAL CELL → PROHIBITED CELL

*FIG. 64*



*FIG. 65*

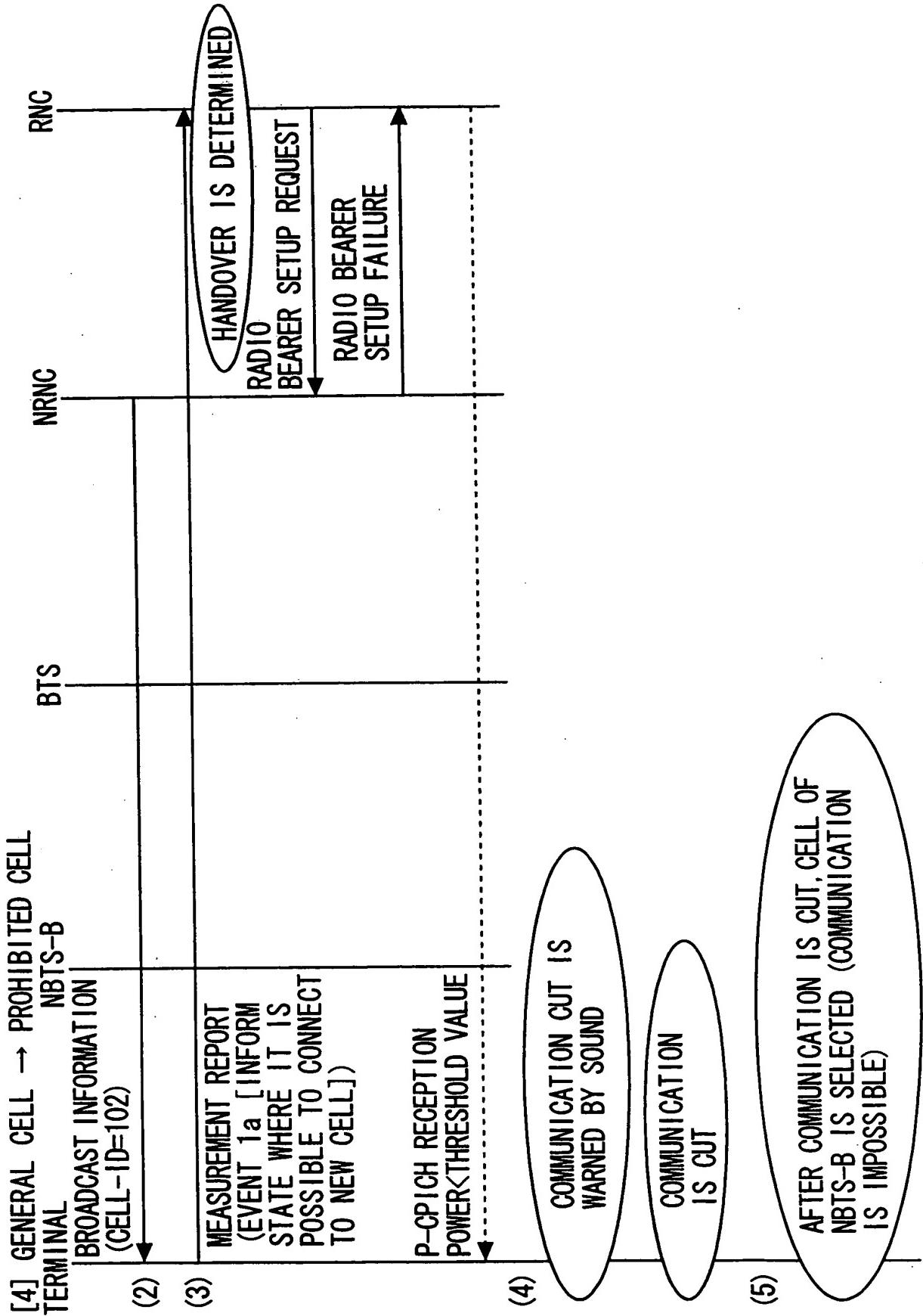


FIG. 66

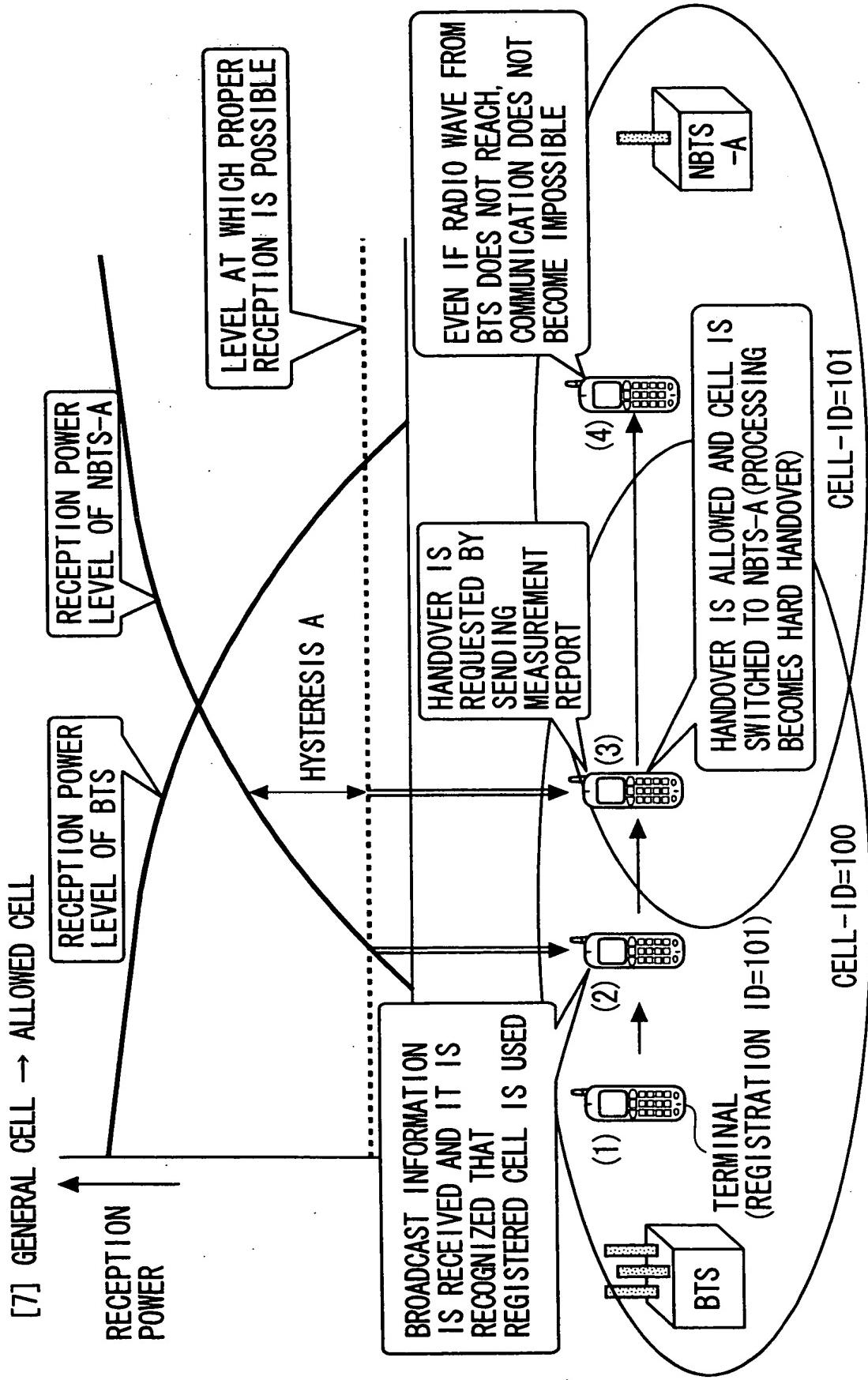


FIG. 67

[7] GENERAL CELL → ALLOWED CELL  
TERMINAL  
BROADCAST INFORMATION  
(CELL-ID=101)

(2)

ENTERING REGISTERED AREA IS INFORMED (SOUND)

(3) MEASUREMENT REPORT  
(EVENT 1a [INFORM  
STATE WHERE IT IS  
POSSIBLE TO CONNECT  
TO NEW CELL])

(3)

RNC

NRNC

BTS

HANDOVER IS DETERMINED

RADIO  
BEARER SETUP REQUEST

IT IS JUDGED WHETHER PAIR OF IMSI  
AND PERSONAL-USE BASE TRANSMISSION  
STATION IS REGISTERED, AND OK RESULT  
IS OBTAINED

RADIO BEARER  
SETUP REQUEST

PHYSICAL CHANNEL  
RECONFIGURATION

RADIO BEARER  
SETUP RESPONSE

PHYSICAL CHANNEL  
RECONFIGURATION  
COMPLETE

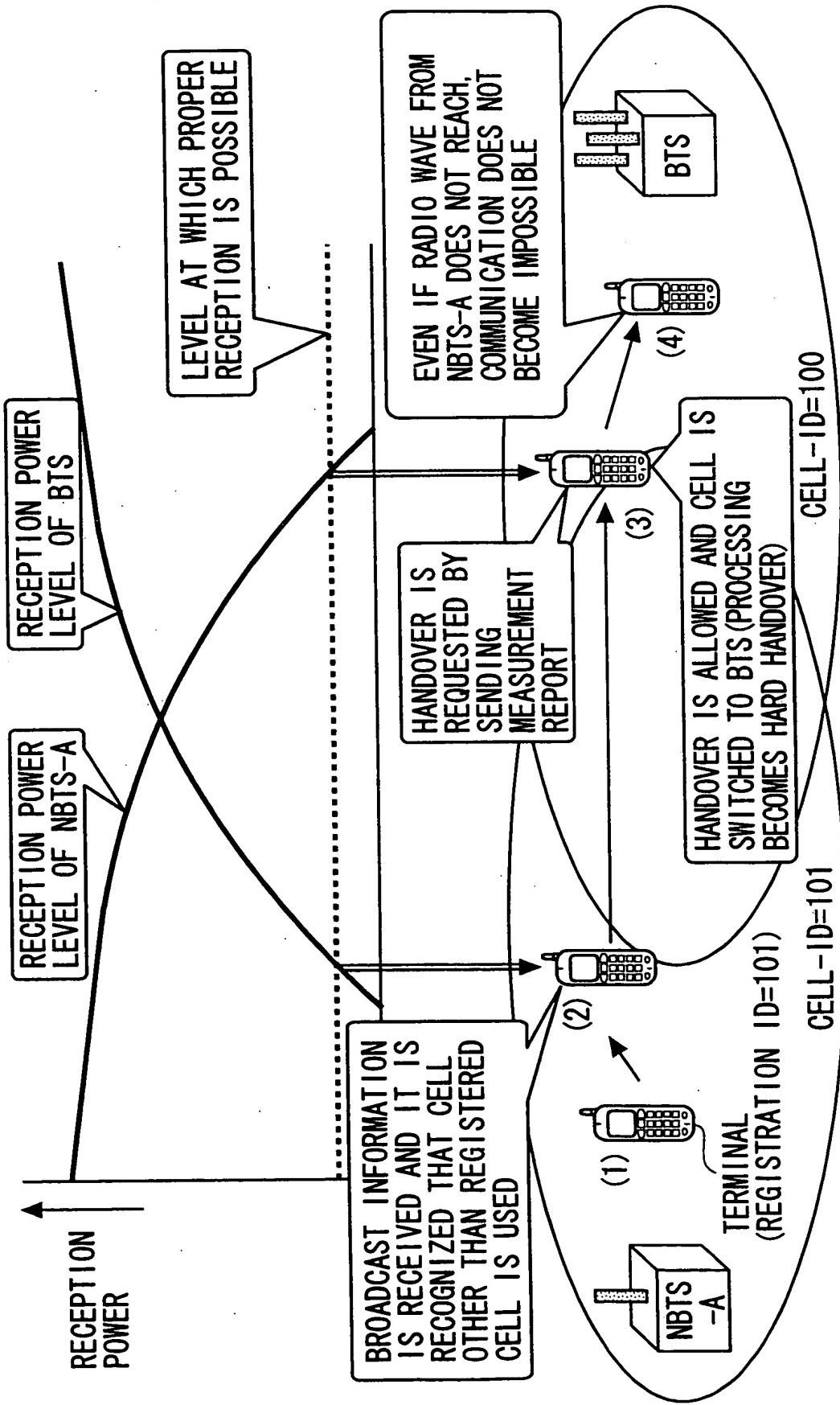
RADIO BEARER  
RELEASE REQUEST

RADIO BEARER  
RELEASE COMPLETE

(4)  
COMMUNICATION STATUS  
UNDER CONTROL BY NBTS-A

*FIG. 68*

[8] ALLOWED CELL → GENERAL CELL



*FIG. 69*

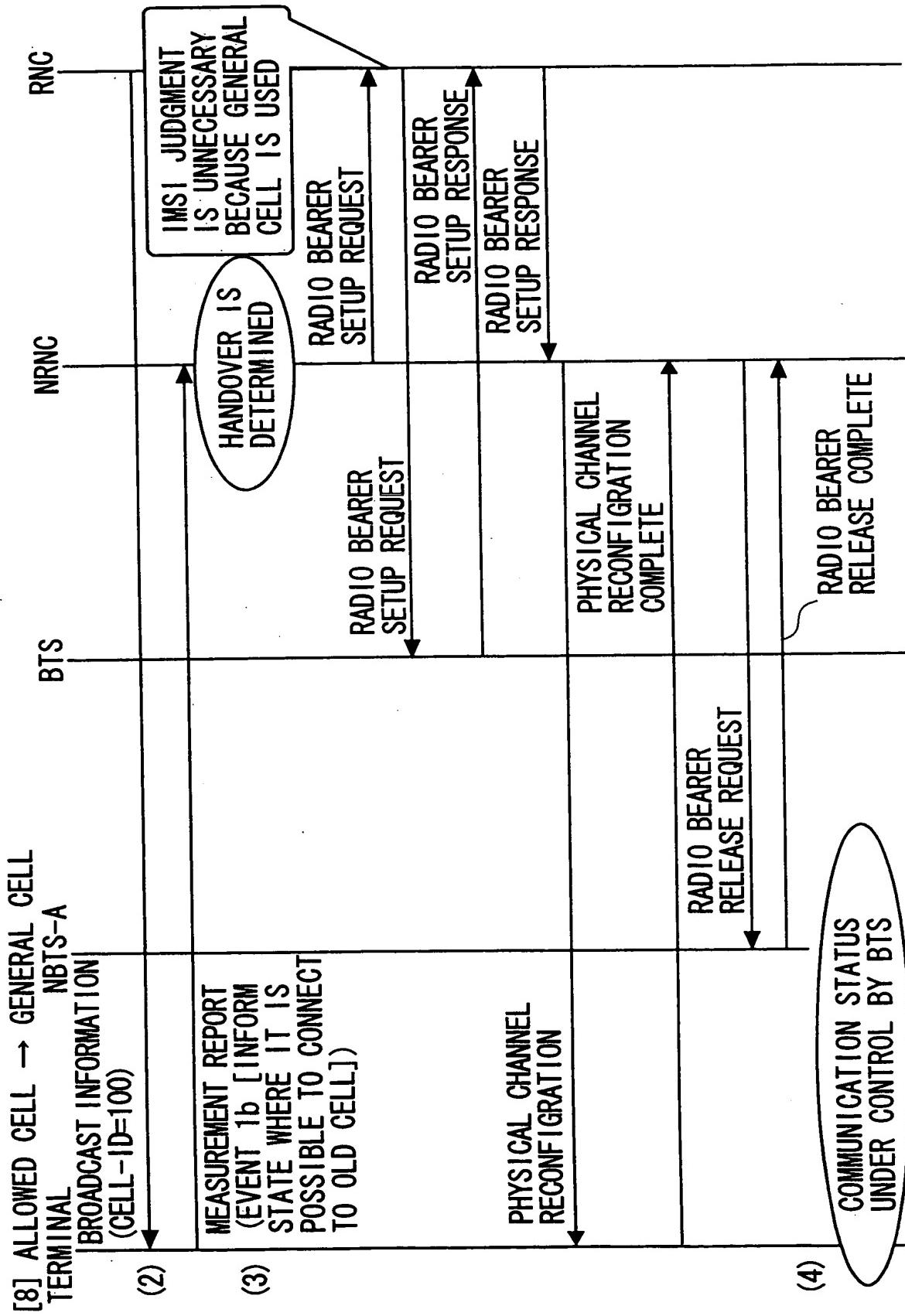
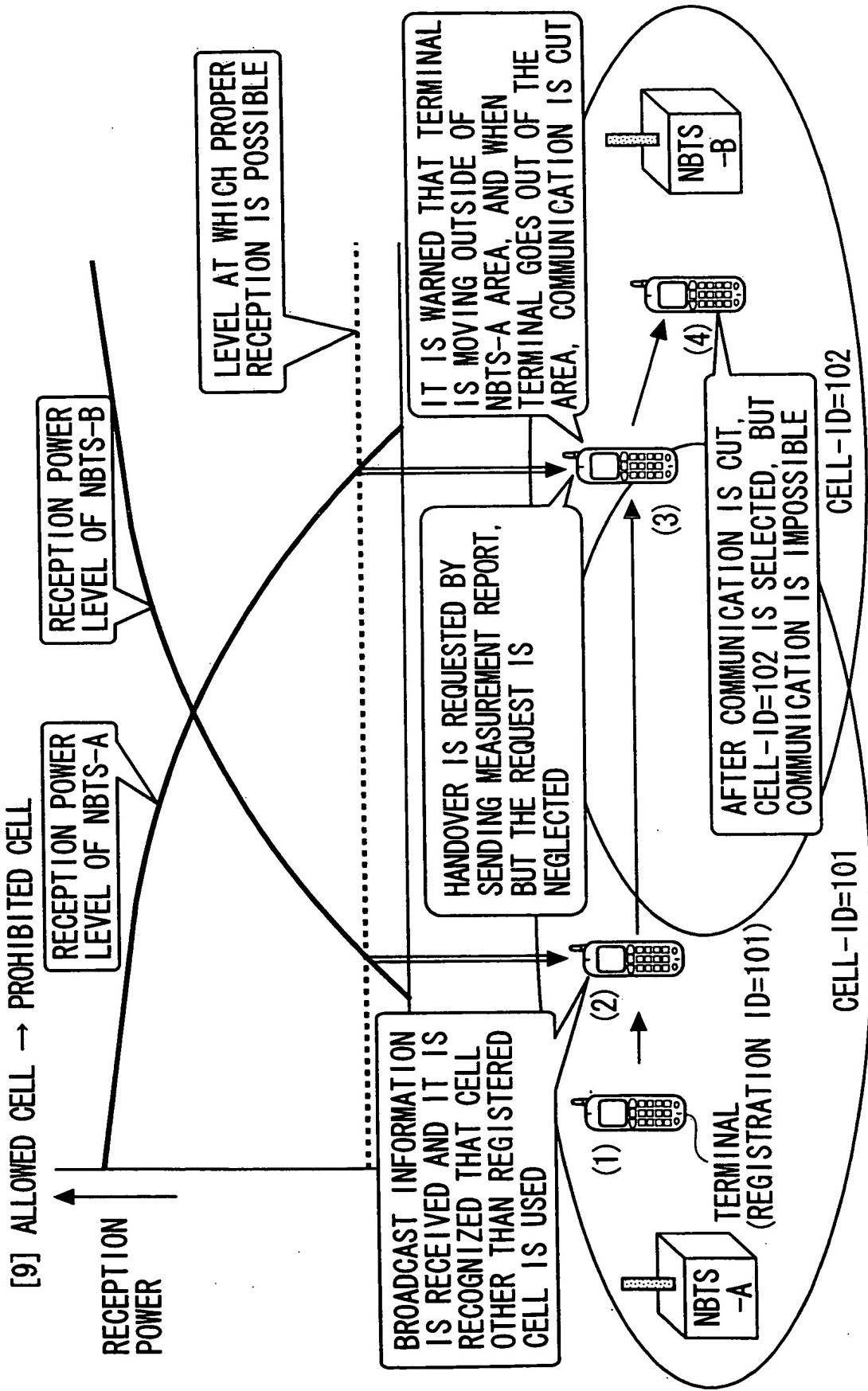
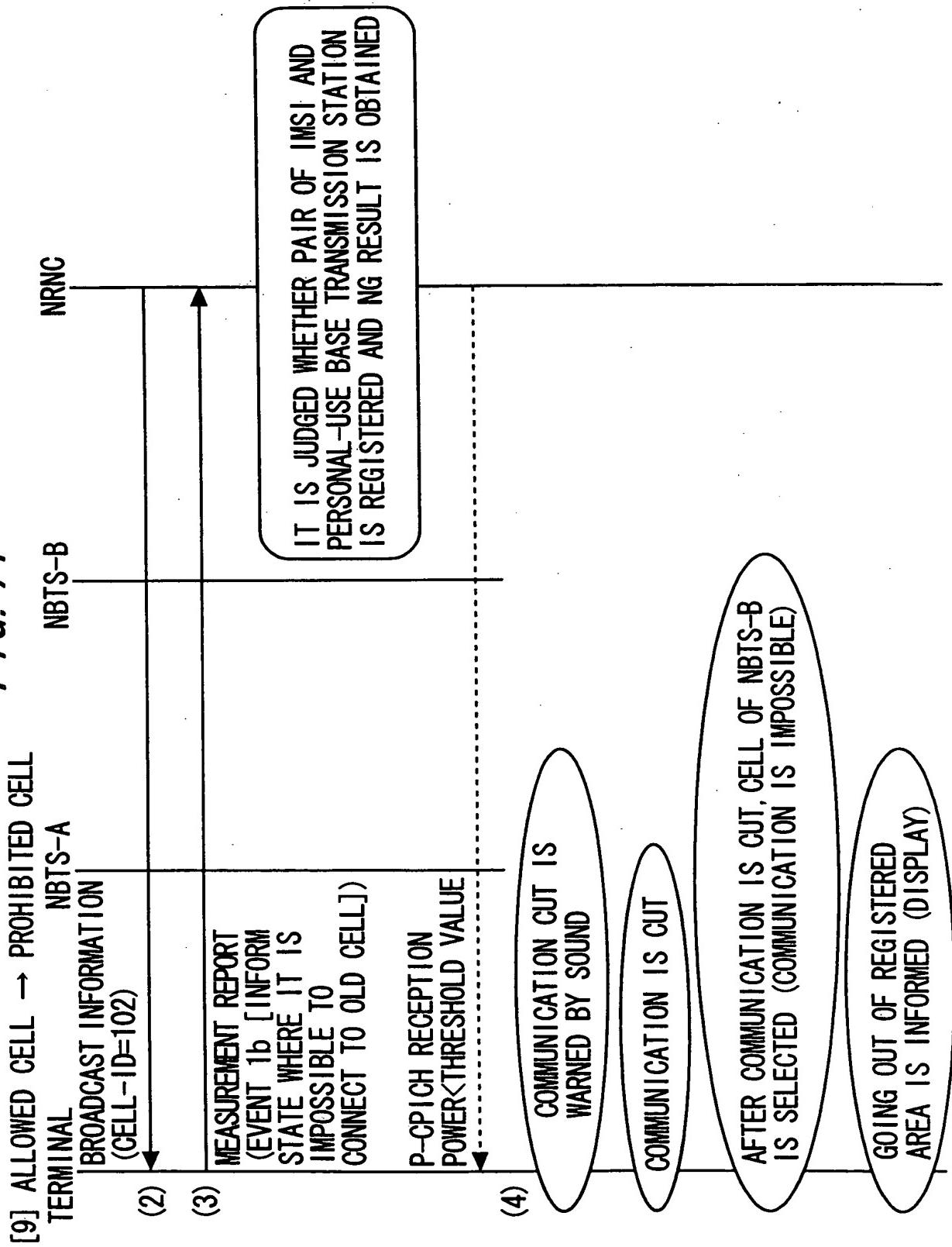


FIG. 70

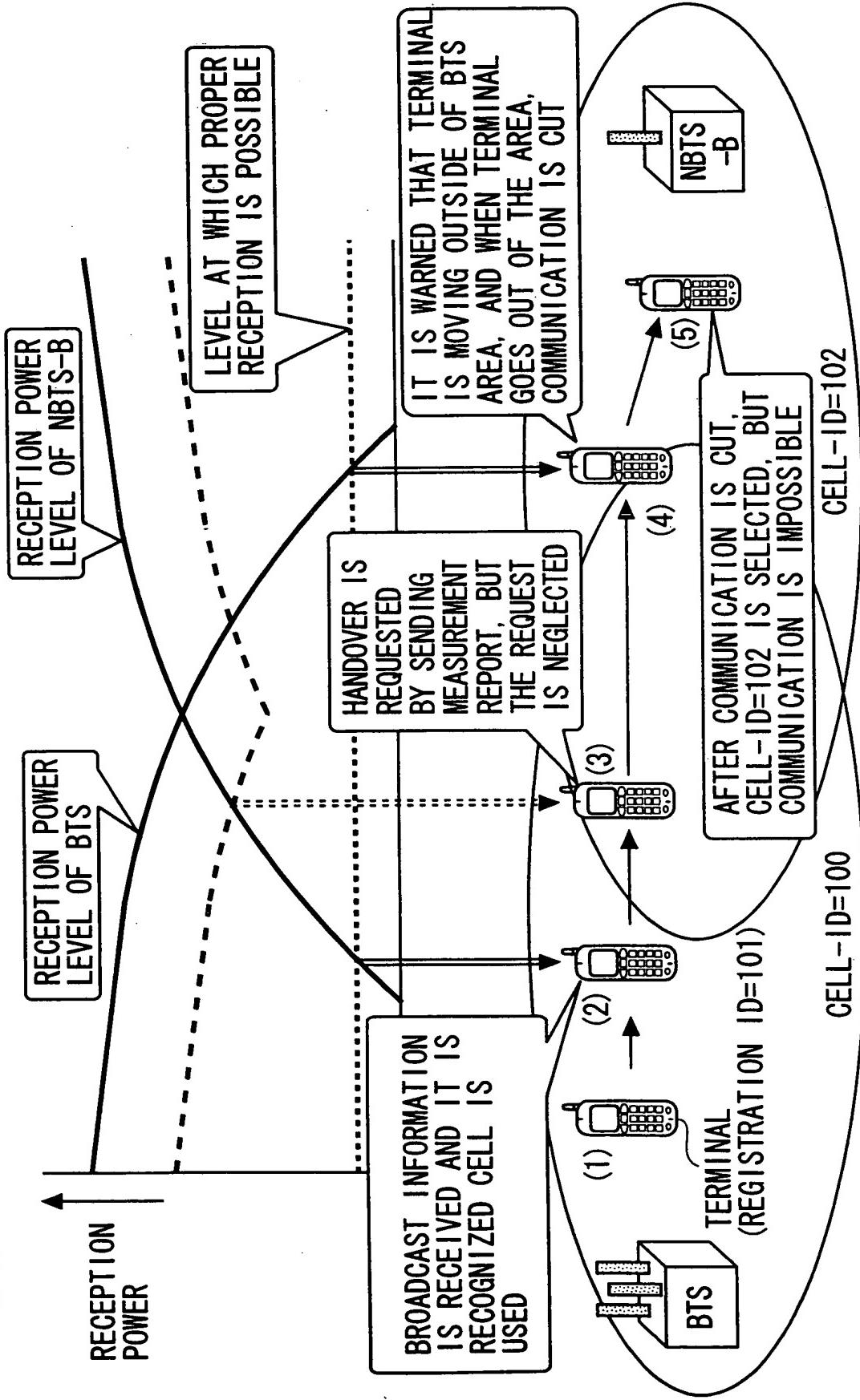


*FIG. 71*

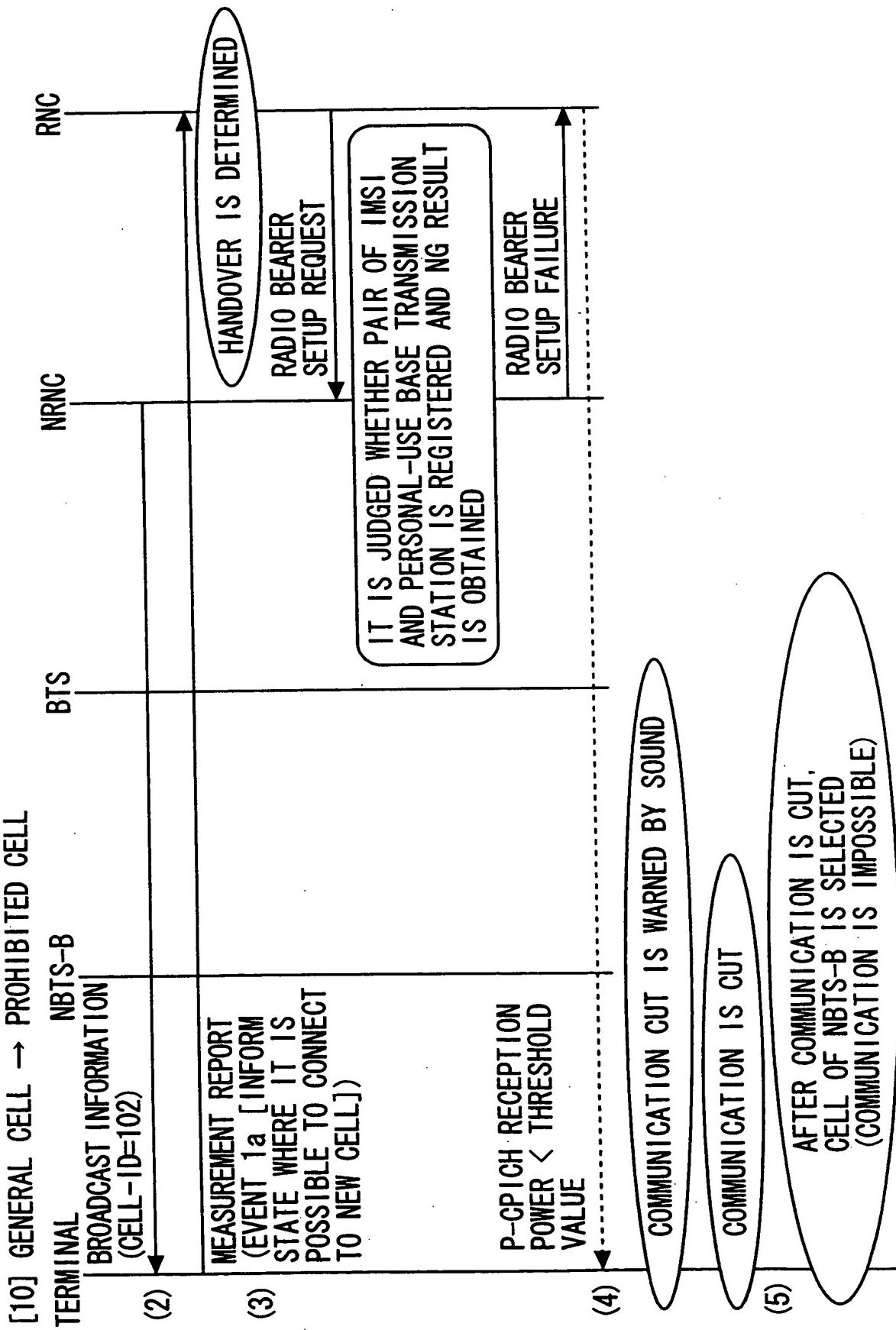


*FIG. 72*

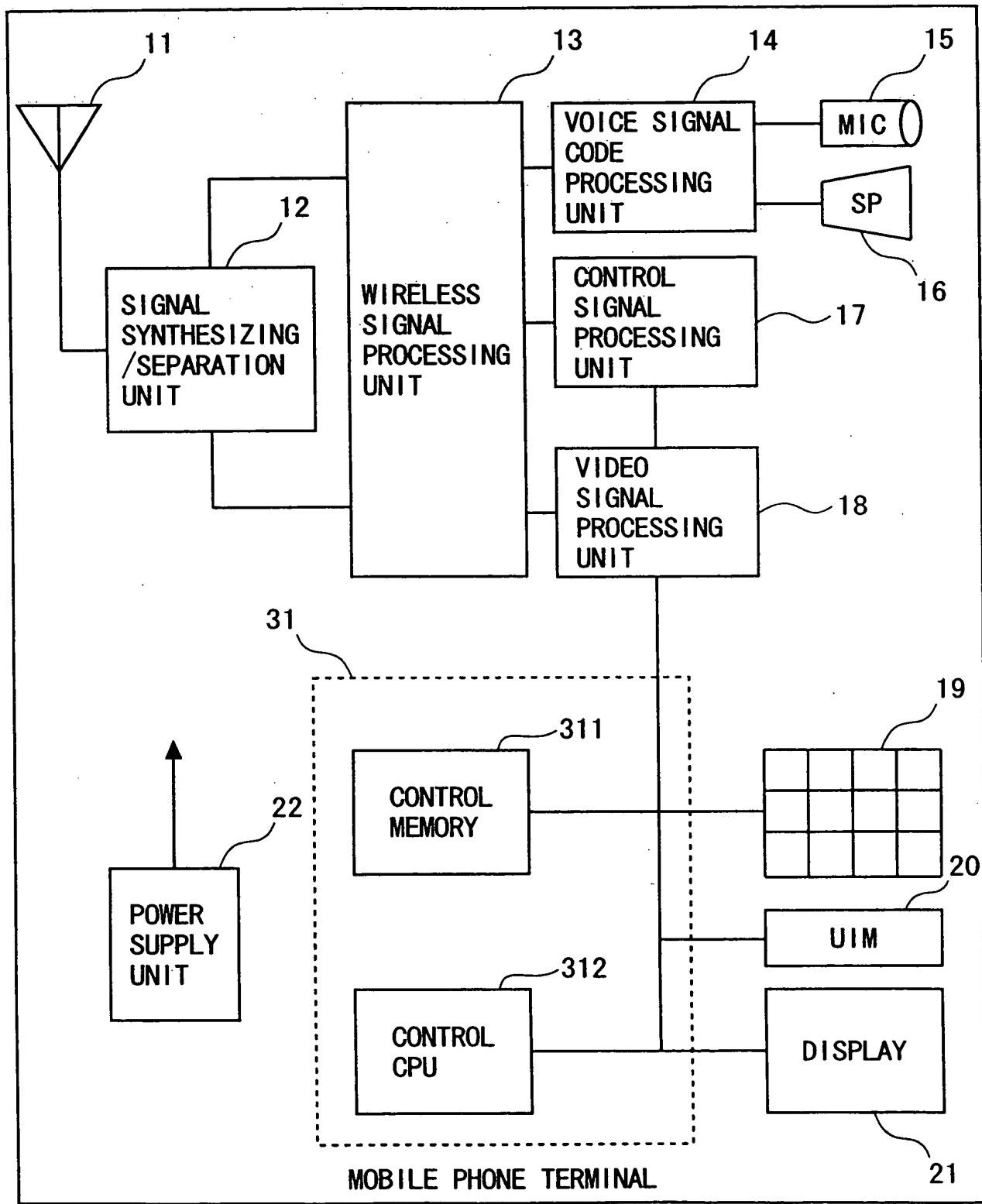
[10] GENERAL CELL → PROHIBITED CELL



*F/G. 73*



*FIG. 74*



*FIG. 75*

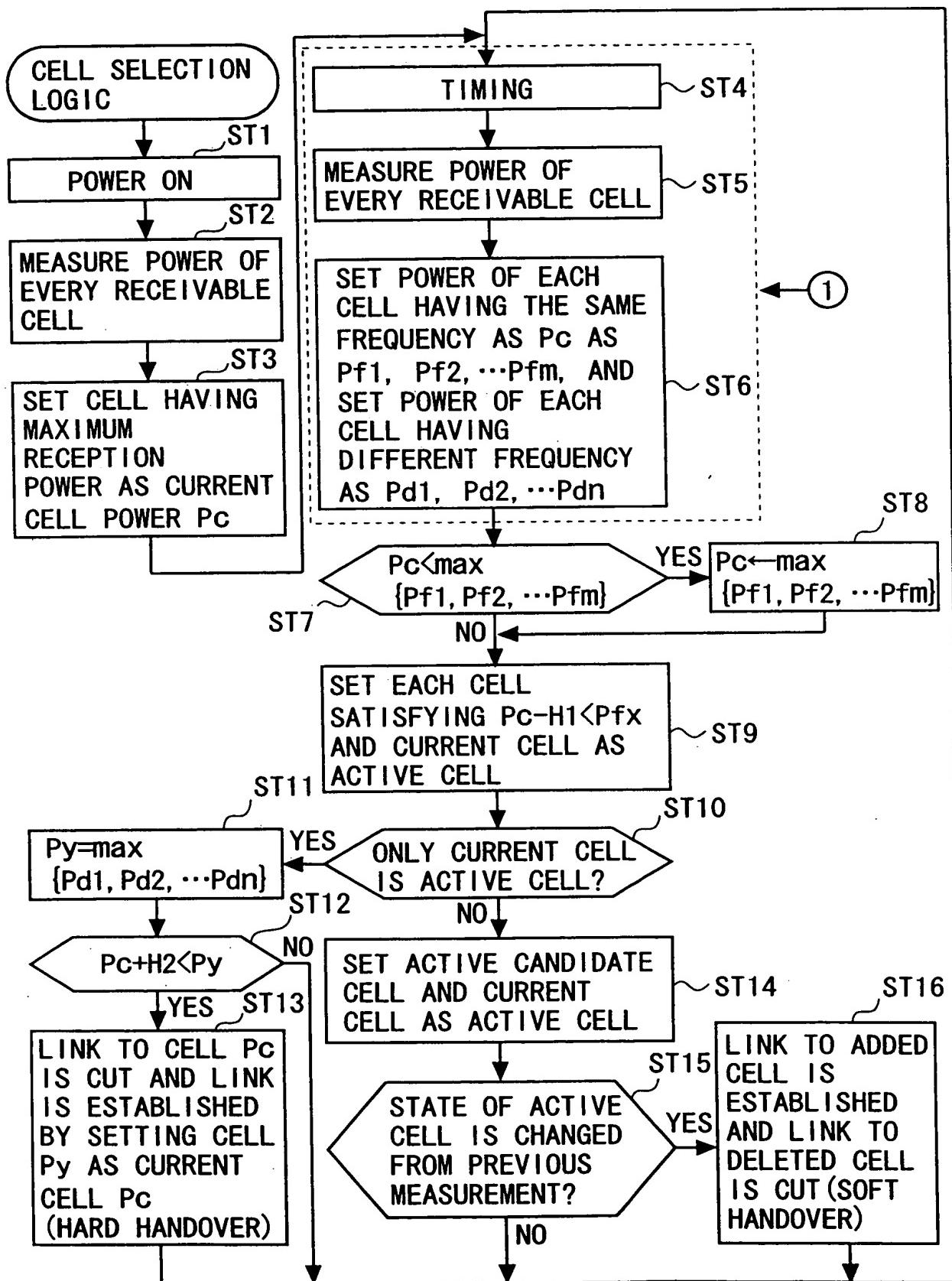
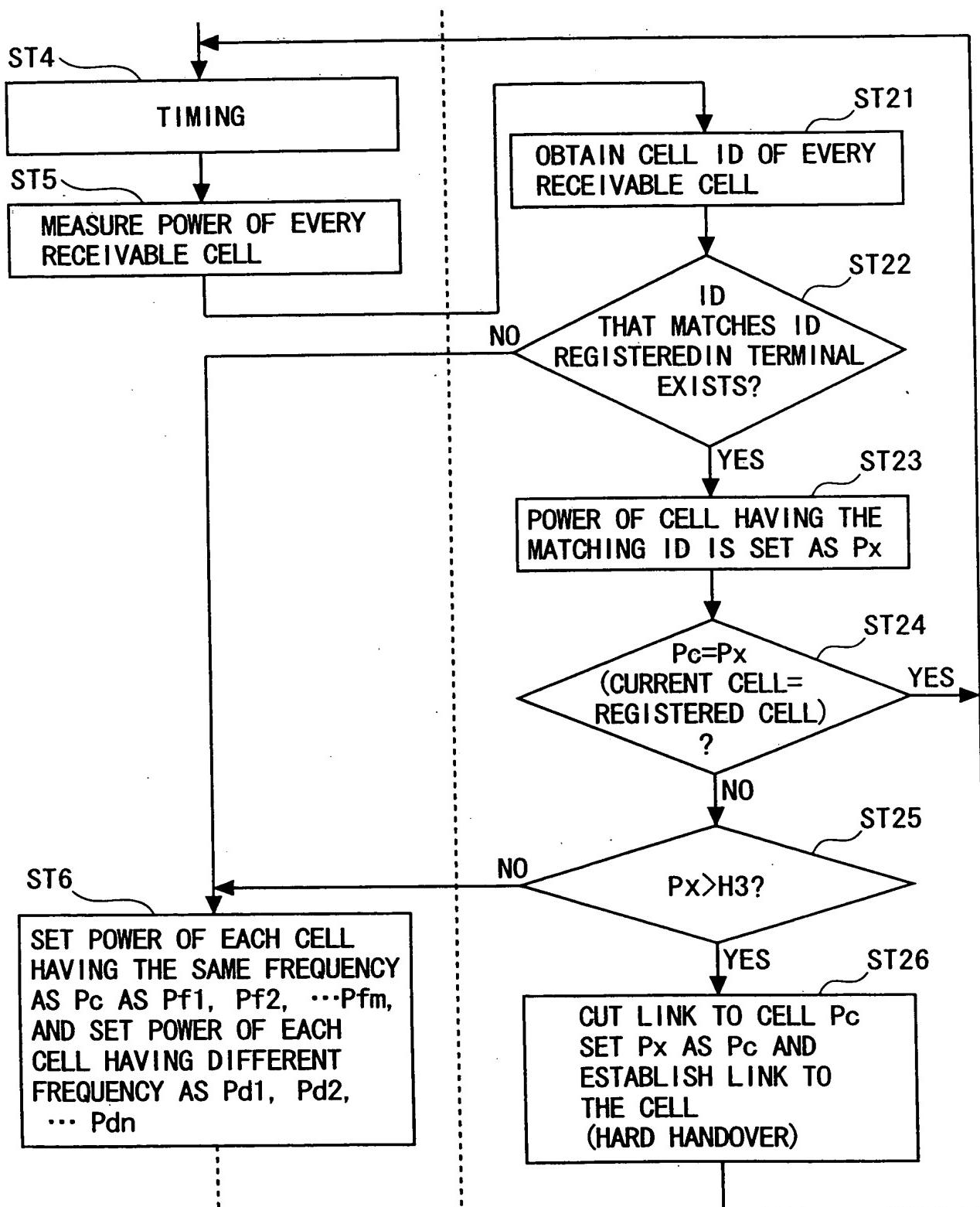


FIG. 76



*FIG. 77*

